```
    ThrMetGlyLys LeuLeuLeu IleLeuGly SerAlaIleAla LeuProSer·
  1 ACCATGGGTA AATTATTACT GATATTAGGT AGTGCTATTG CACTTCCATC
    ·PheAlaAla AlaGlyGlyAsp LeuAspIle SerAspThr ValGlyValSer·
 51 ATTTGCTGCT GCTGGTGGCG ATCTAGATAT AAGTGATACT GTTGGTGTTT
    · PheTrpLeu ValThrAla GlyMetLeuAla AlaThrVal PhePhePhe
101 CATTCTGGCT GGTTACAGCT GGTATGTTAG CGGCAACTGT GTTCTTTTTT
    ValGluArgAsp GlnValSer AlaLysTrp LysThrSerLeu AlaValSer·
151 GTAGAAAGAG ACCAAGTCAG CGCTAAGTGG AAAACTTCAC TTGCTGTATC
    ·GlyLeuIle ThrGlyIleAla PheTrpHis TyrLeuTyr MetArgGlyVal·
201 TGGTTTAATT ACTGGTATAG CTTTTTGGCA TTATCTCTAT ATGAGAGGTG
    · TrpIleAsp ThrGlyAsp ThrProThrVal PheArgTyr IleAspTrp
251 TTTGGATAGA CACTGGTGAT ACCCCAACAG TATTCAGATA TATTGATTGG
    LeuLeuThrVal ProLeuGln MetValGlu PheTyrLeuIle LeuAlaAla·
301 TTATTAACTG TTCCATTACA AATGGTTGAG TTCTATCTAA TTCTTGCTGC
    ·CysThrSer ValAlaAlaSer LeuPheLys LysLeuLeu AlaGlySerLeu·
351 TTGTACAAGT GTTGCTGCTT CATTATTTAA GAAGCTTCTA GCTGGTTCAT
    · ValMetLeu GlyAlaGly PheAlaGlyGlu AlaGlyLeu AlaProVal
401 TAGTAATGTT AGGTGCTGGA TTTGCAGGCG AAGCTGGATT AGCTCCTGTA
    LeuProAlaPhe IleIleGly MetAlaGly TrpLeuTyrMet IleTyrGlu·
451 TTACCTGCTT TCATTATTGG TATGGCTGGA TGGTTATACA TGATTTATGA
    ·LeuTyrMet GlyGluGlyLys AlaAlaVal SerThrAla SerProAlaVal·
501 GCTATATATG GGTGAAGGTA AGGCTGCTGT AAGTACTGCA AGTCCTGCTG
    · AsnSerAla TyrAsnAla MetMetMetIle IleValVal GlyTrpAla
551 TTAACTCTGC ATACAACGCA ATGATGATGA TTATTGTTGT TGGATGGGCA
    IleTyrProAla GlyTyrAla AlaGlyTyr LeuMetGlyGly GluGlyVal·
601 ATTTATCCTG CTGGATATGC TGCTGGTTAC CTAATGGGTG GCGAAGGTGT
    ·TyrAlaSer AsnLeuAsnLeu IleTyrAsn LeuAlaAsp LeuValAsnLys·
651 ATACGCTTCA AACTTAAACC TTATATATAA CCTTGCCGAC CTTGTTAACA
    · IleLeuPhe GlyLeuIle IleTrpAsnVal AlaValLys GluSerSer
701 AGATTCTATT TGGTTTGATC ATTTGGAATG TTGCTGTTAA AGAATCTTCT
    AsnAla
751 AATGCT
```

Figure 1-1

```
    MetLysLeuLeu LeuIleLeu GlySerVal IleAlaLeuPro ThrPheAla·
  1 ATGAAATTAT TACTGATATT AGGTAGTGTT ATTGCACTTC CTACATTTGC
    ·AlaGlyGly GlyAspLeuAsp AlaSerAsp TyrThrGly ValSerPheTrp·
 51 TGCAGGTGGT GGTGACCTTG ATGCTAGTGA TTACACTGGT GTTTCTTTTT
    · LeuValThr AlaAlaLeu LeuAlaSerThr ValPhePhe PheValGlu
101 GGTTAGTTAC TGCTGCTTTA TTAGCATCTA CTGTATTTTT CTTTGTTGAA
    ArgAspArgVal SerAlaLys TrpLysThr SerLeuThrVal SerGlyLeu·
151 AGAGATAGAG TTTCTGCAAA ATGGAAAACA TCATTAACTG TATCTGGTCT
    ·ValThrGly IleAlaPheTrp HisTyrMet TyrMetArg GlyValTrpIle·
201 TGTTACTGGT ATTGCTTTCT GGCATTACAT GTACATGAGA GGGGTATGGA
    · GluThrGly AspSerPro ThrValPheArg TyrIleAsp TrpLeuLeu
251 TTGAAACTGG TGATTCGCCA ACTGTATTTA GATACATTGA TTGGTTACTA
    ThrValProLeu LeuIleCys GluPheTyr LeuIleLeuAla AlaAlaThr·
301 ACAGTTCCTC TATTAATATG TGAATTCTAC TTAATTCTTG CTGCTGCAAC
    ·AsnValAla GlySerLeuPhe LysLysLeu LeuValGly SerLeuValMet·
351 TAATGTTGCT GGATCATTAT TTAAGAAATT ACTAGTTGGT TCTCTTGTTA
    · LeuValPhe GlyTyrMet GlyGluAlaGly IleMetAla AlaTrpPro
401 TGCTTGTGTT TGGTTACATG GGTGAAGCAG GAATCATGGC TGCATGGCCT
    AlaPheIleIle GlyCysLeu AlaTrpVal TyrMetIleTyr GluLeuTrp·
451 GCATTCATTA TTGGGTGTTT AGCTTGGGTA TACATGATTT ATGAATTATG
    ·AlaGlyGlu GlyLysSerAla CysAsnThr AlaSerPro AlaValGlnSer·
501 GGCTGGAGAA GGAAAATCTG CATGTAATAC TGCAAGTCCT GCTGTGCAAT
    · AlaTyrAsn ThrMetMet TyrIleIleIle PheGlyTrp AlaIleTyr
551 CAGCTTACAA CACAATGATG TATATTATCA TCTTTGGTTG GGCGATTTAT
    ProValGlyTyr PheThrGly TyrLeuMet GlyAspGlyGly SerAlaLeu·
601 CCTGTAGGTT ATTTCACAGG TTACCTGATG GGTGACGGTG GATCAGCTCT
    ·AsnLeuAsn LeuIleTyrAsn LeuAlaAsp PheValAsn LysIleLeuPhe·
651 TAACTTAAAC CTTATCTATA ACCTTGCTGA CTTTGTTAAC AAGATTCTAT
    · GlyLeuIle IleTrpAsn ValAlaValLys GluSerSer AsnAla***
701 TTGGTTTAAT TATATGGAAT GTTGCTGTTA AAGAATCTTC TAATGCTTAA
```

Figure 1-2

```
     ThrMetGlyLys LeuLeuLeu IleLeuGly SerValIleAla LeuProThr·
   1 ACCATGGGTA AATTATTACT GATATTAGGT AGTGTTATTG CACTTCCTAC
     ·PheAlaAla GlyGlyGlyAsp LeuAspAla SerAspTyr ThrGlyValSer·
  51 ATTTGCTGCA GGTGGTGGTG ACCTTGATGC TAGTGATTAC ACTGGTGTTT
     · PheTrpLeu ValThrAla AlaLeuLeuAla SerThrVal PhePhePhe
 101 CTTTTTGGTT AGTTACTGCT GCTCTATTAG CATCTACTGT ATTTTTCTTT
     ValGluArgAsp ArgValSer AlaLysTrp LysThrSerLeu ThrValSer·
 151 GTTGAAAGAG ATAGAGTTTC TGCAAAATGG AAAACATCAT TAACTGTATC
     ·GlyLeuVal ThrGlyIleAla PheTrpHis TyrMetTyr MetArgGlyVal·
 201 GGGTCTTGTT ACTGGTATTG CTTTCTGGCA TTACATGTAC ATGAGAGGGG
     · TrpIleGlu ThrGlyAsp SerProThrVal PheArgTyr IleAspTrp
 251 TATGGATTGA GACTGGTGAT TCGCCAACTG TATTTAGATA CATTGATTGG
     LeuLeuThrVal ProLeuLeu IleCysGlu PheTyrLeuIle LeuAlaAla·
 301 TTACTAACAG TTCCTCTATT GATATGTGAA TTCTACTTAA TTCTTGCTGC
     ·AlaThrAsn ValAlaAlaGly LeuPheLys LysLeuLeu ValGlySerLeu·
 351 TGCAACAAAT GTTGCTGCTG GCCTGTTTAA GAAATTATTG GTTGGTTCTC
     · ValMetLeu ValPheGly TyrMetGlyGlu AlaGlyIle MetAsnAla
 401 TTGTTATGCT TGTGTTTGGT TACATGGGTG AGGCAGGAAT TATGAACGCT
     TrpGlyAlaPhe ValIleGly CysLeuAla TrpValTyrMet IleTyrGlu·
 451 TGGGGTGCAT TCGTTATTGG GTGTTTAGCT TGGGTATACA TGATTTATGA
     ·LeuTrpAla GlyGluGlyLys AlaAlaCys AsnThrAla SerProAlaVal·
 501 ACTATGGGCT GGAGAAGGCA AGGCTGCATG TAATACTGCA AGTCCTGCTG
     · GlnSerAla TyrAsnThr MetMetTyrIle IleIlePhe GlyTrpAla
 551 TGCAATCAGC TTACAACACA ATGATGTATA TAATCATCTT TGGTTGGGCA
     IleTyrProVal GlyTyrPhe ThrGlyTyr LeuMetGlyAsp GlyGlySer·
 601 ATTTATCCTG TAGGTTATTT CACAGGTTAC CTAATGGGTG ACGGTGGATC
     ·AlaLeuAsn LeuAsnLeuIle TyrAspLeu AlaAspPhe ValAsnLysIle·
 651 AGCTCTTAAC TTAAACCTTA TCTATGACCT TGCTGACTTT GTTAACAAGA
     · LeuPheGly LeuIleIle TrpAsnValAla ValLysGlu SerSerAsn
 701 TTCTATTTGG TTTAATTATA TGGAATGTTG CTGTTAAAGA ATCTTCTAAT
     AlaLys
 751 GCTAAGG
```

Figure 1-3

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     ThrMetGlyLys LeuLeuLeu IleLeuGly SerValIleAla LeuProThr·
   1 ACCATGGGTA AATTATTACT GATATTAGGT AGTGTTATTG CACTTCCTAC
     ·PheAlaAla GlyGlyGlyAsp LeuAspAla SerAspTyr ThrGlyValSer·
  51 ATTTGCTGCA GGTGGCGGTG ACCTTGATGC TAGTGATTAC ACTGGTGTTT
     · PheTrpLeu ValThrAla AlaLeuLeuAla SerThrVal PhePhePhe
 101 CTTTTTGGTT AGTTACAGCT GCTCTATTAG CATCTACTGT ATTTTTCTTT
     ValGluArgAsp ArgValSer AlaLysTrp LysThrSerLeu ThrValSer·
 151 GTTGAAAGAG ATAGAGTTTC TGCAAAATGG AAAACATCAT TAACTGTATC
     ·GlyLeuVal ThrGlyIleAla PheTrpHis TyrMetTyr MetArgGlyVal·
 201 TGGTCTTGTT ACTGGTATTG CTTTCTGGCA TTACATGTAC ATGAGAGGAG
     · TrpIleGlu ThrGlyAsp SerProThrVal PheArgTyr IleAspTrp
 251 TATGGATTGA AACTGGTGAT TCGCCTACTG TATTTAGATA CATTGATTGG
     LeuLeuThrVal ProLeuLeu IleCysGlu PheTyrLeuIle LeuAlaAla·
 301 TTACTAACAG TTCCTTTATT AATATGTGAA TTCTACTTAA TTCTTGCTGC
     ·AlaThrAsn ValAlaGlySer LeuPheLys LysLeuLeu ValGlySerLeu·
 351 TGCAACTAAT GTTGCCGGCT CATTATTTAA GAAACTTCTA GTTGGTTCTC
     · ValMetLeu ValPheGly TyrMetGlyGlu AlaGlyIle MetAlaAla
 401 TTGTTATGCT TGTGTTTGGT TACATGGGTG AAGCAGGAAT TATGGCAGCT
     TrpProAlaPhe IleIleGly CysLeuAla TrpValTyrMet IleTyrGlu·
 451 TGGCCTGCAT TCATTATTGG GTGTTTAGCT TGGGTATACA TGATTTATGA
     ·LeuTyrAla GlyGluGlyLys SerAlaCys AsnThrAla SerProSerVal·
 501 ACTATATGCT GGAGAAGGAA AATCTGCATG TAATACTGCA AGTCCTTCGG
     · GlnSerAla TyrAsnThr MetMetAlaIle IleValPhe GlyTrpAla
 551 TTCAATCAGC TTACAACACA ATGATGGCTA TCATAGTCTT CGGTTGGGCA
     IleTyrProIle GlyTyrPhe ThrGlyTyr LeuMetGlyAsp GlyGlySer·
 601 ATTTATCCTA TAGGTTATTT CACAGGTTAC CTAATGGGTG ACGGTGGATC
     ·AlaLeuAsn LeuAsnLeuIle TyrAsnLeu AlaAspPhe ValAsnLysIle·
 651 AGCTCTTAAC TTAAACCTTA TTTATAACCT TGCTGACTTT GTTAACAAGA
     · LeuPheGly LeuIleIle TrpAsnValAla ValLysGlu SerSerAsn
 701 TTCTATTTGG TTTAATTATA TGGAATGTTG CTGTTAAAGA ATCTTCTAAT
     AlaLys
 751 GCTAAGG
```

Figure 1-4

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    ThrMetGlyLys LeuLeuLeu IleLeuGly SerValIleAla LeuProThr·
  1 ACCATGGGTA AATTATTACT GATATTAGGT AGTGTTATTG CACTTCCTAC
    ·PheAlaAla GlyGlyGlyAsp LeuAspAla SerAspTyr ThrGlyValSer·
 51 ATTTGCTGCA GGTGGTGGTG ACCTTGATGC TAGTGATTAC ACTGGTGTTT
    · PheTrpLeu ValThrAla AlaLeuLeuAla SerThrVal PhePhePhe
101 CTTTTTGGTT AGTTACTGCT GCTCTATTAG CATCTACTGT ATTTTTCTTT
    ValGluArgAsp ArgValSer AlaLysTrp LysThrSerLeu ThrValSer·
151 GTTGAAAGAG ATAGAGTTTC TGCAAAATGG AAAACATCAT TAACTGTATC
    ·GlyLeuVal ThrGlyIleAla PheTrpHis TyrMetTyr MetArgGlyVal·
201 GGGTCTTGTT ACTGGTATTG CTTTCTGGCA TTACATGTAC ATGAGAGGGG
    · TrpIleGlu ThrGlyAsp SerProThrVal PheArgTyr IleAspTrp
251 TATGGATTGA GACCGGTGAT TCGCCAACTG TATTTAGATA CATTGATTGG
    LeuLeuThrVal ProLeuLeu IleCysGlu PheTyrLeuIle LeuAlaAla·
301 TTACTAACAG TTCCTCTATT GATATGTGAA TTCTACTTAA TTCTTGCTGC
    ·AlaThrAsn ValAlaAlaGly LeuPheLys LysLeuLeu ValGlySerLeu·
351 TGCAACAAAT GTTGCTGCTG GCCTGTTTAA GAAATTATTG GTTGGTTCTC
    · ValMetLeu ValPheGly TyrMetGlyGlu AlaGlyIle MetAsnAla
401 TTGTTATGCT TGTGTTTGGT TACATGGGTG AGGCAGGAAT TATGAACGCT
    TrpGlyAlaPhe ValIleGly CysLeuAla TrpValTyrMet IleTyrGlu·
451 TGGGGTGCAT TCGTTATTGG GTGTTTAGCT TGGGTATACA TGATTTATGA
    ·LeuTrpAla GlyGluGlyLys AlaAlaCys AsnThrAla SerProAlaVal·
501 ACTATGGGCT GGAGAAGGCA AGGCTGCATG TAATACTGCA AGTCCTGCTG
    · GlnSerAla TyrAsnThr MetMetTyrIle IleIlePhe GlyTrpAla
551 TGCAATCAGC TTACAACACA ATGATGTATA TAATCATCTT TGGTTGGGCA
    IleTyrProVal GlyTyrPhe ThrGlyTyr LeuMetGlyAsp GlyGlySer·
601 ATTTATCCTG TAGGTTATTT CACAGGTTAC CTAATGGGTG ACGGTGGATC
    ·AlaLeuAsn LeuAsnLeuIle TyrAsnLeu AlaAspPhe ValAsnLysIle·
651 AGCTCTTAAC TTAAACCTTA TCTATAACCT TGCTGACTTT GTTAACAAGA
    · LeuPheGly LeuIleIle TrpAsnValAla ValLysGlu SerSerAsn
701 TTCTATTTGG TTTAATTATA TGGAATGTTG CTGTTAAAGA ATCTTCTAAT
    Ala
751 GCT
```

Figure 1-5

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    ThrMetGlyLys LeuLeuLeu IleLeuGly SerAlaIleAla LeuProSer·
  1 ACCATGGGTA AATTATTACT GATATTAGGT AGTGCTATTG CACTTCCATC
    ·PheAlaAla AlaGlyGlyAsp LeuAspIle SerAspThr ValGlyValSer·
 51 ATTTGCTGCT GCTGGTGGCG ATCTAGATAT AAGTGATACT GTTGGTGTTT
    · PheTrpLeu ValThrAla GlyMetLeuAla AlaThrVal PhePhePhe
101 CATTCTGGCT GGTTACAGCT GGTATGTTAG CGGCAACTGT ATTCTTTTTT
    ValGluArgAsp GlnValSer AlaLysTrp LysThrSerLeu ThrValSer·
151 GTAGAAAGAG ACCAAGTCAG CGCTAAGTGG AAAACTTCAC TTACTGTATC
    ·GlyLeuIle ThrGlyIleAla PheTrpHis TyrLeuTyr MetArgGlyVal·
201 TGGTTTAATT ACTGGTATAG CTTTTTGGCA TTATCTCTAC ATGAGAGGTG
    · TrpIleAsp ThrGlyAsp ThrProThrVal PheArgTyr IleAspTrp
251 TTTGGATAGA TACTGGTGAT ACACCAACAG TATTTAGATA TATTGATTGG
    LeuLeuThrVal ProLeuGln MetValGlu PheTyrLeuIle LeuAlaAla·
301 TTATTAACTG TTCCATTACA AATGGTTGAG TTCTATCTAA TTCTTGCTGC
    ·CysThrSer ValAlaAlaSer LeuPheLys LysLeuLeu AlaGlySerLeu·
351 TTGTACAAGT GTTGCTGCTT CATTATTTAA GAAGCTTCTA GCTGGTTCAT
    · ValMetLeu GlyAlaGly PheAlaGlyGlu AlaGlyLeu AlaProVal
401 TAGTAATGTT AGGTGCTGGA TTTGCAGGCG AAGCTGGTTT AGCTCCTGTA
    LeuProAlaPhe IleIleGly MetAlaGly TrpLeuTyrMet IleTyrGlu·
451 TTACCTGCTT TCATTATTGG TATGGCTGGA TGGTTATACA TGATTTATGA
    ·LeuHisMet GlyGluGlyLys AlaAlaVal SerThrAla SerProAlaVal·
501 GCTACATATG GGTGAAGGTA AGGCTGCTGT AAGTACTGCA AGTCCTGCTG
    · AsnSerAla TyrAsnAla MetMetLysIle IleValIle GlyTrpAla
551 TTAACTCTGC ATACAACGCA ATGATGAAGA TTATTGTTAT TGGATGGGCA
    IleTyrProAla GlyTyrAla AlaGlyTyr LeuMetSerGly AspGlyVal·
601 ATTTATCCTG CTGGATATGC TGCTGGTTAC CTAATGAGTG GTGACGGTGT
    ·TyrAlaSer AsnLeuAsnLeu IleTyrAsn LeuAlaAsp PheValAsnLys·
651 ATACGCTTCA AACTTAAACC TTATATATAA CCTTGCTGAC TTTGTTAACA
    · IleLeuPhe GlyLeuIle IleTrpAsnVal AlaValLys GluSerSer
701 AGATTCTATT TGGTTTGATC ATTTGGAATG TTGCTGTTAA AGAATCTTCT
    AsnAla
751 AATGCTA
```

Figure 1-6

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    ThrMetGlyLys LeuLeuLeu IleLeuGly SerAlaIleAla LeuProSer·
  1 ACCATGGGTA AATTATTACT GATATTAGGT AGTGCTATTG CACTTCCATC
    ·PheAlaAla AlaGlyGlyAsp LeuAspIle SerAspThr ValGlyValSer·
 51 ATTTGCTGCT GCTGGTGGCG ATCTAGATAT AAGTGATACT GTTGGTGTTT
    · PheTrpLeu ValThrAla GlyMetLeuAla AlaThrVal PhePhePhe
101 CATTCTGGCT GGTTACAGCT GGTATGTTAG CGGCAACTGT GTTCTTTTTT
    ValGluArgAsp GlnValSer AlaLysTrp LysThrSerLeu ThrValSer·
151 GTAGAAAGAG ACCAAGTCAG CGCTAAGTGG AAAACTTCAC TTACTGTATC
    ·GlyLeuIle ThrGlyIleAla PheTrpHis TyrLeuTyr MetArgGlyVal·
201 TGGTTTAATT ACTGGTATAG CTTTTTGGCA TTATCTCTAT ATGAGAGGTG
    · TrpIleAsp ThrGlyAsp ThrProThrVal PheArgTyr IleAspTrp
251 TTTGGATAGA CACTGGTGAT ACCCCAACAG TATTCAGATA TATTGATTGG
    LeuLeuThrVal ProLeuGln ValValGlu PheTyrLeuIle LeuAlaAla·
301 TTATTAACTG TTCCATTACA AGTGGTTGAG TTCTATCTAA TTCTTGCTGC
    ·CysThrSer ValAlaAlaSer LeuPheLys LysLeuLeu AlaGlySerLeu·
351 TTGTACAAGT GTTGCTGCTT CATTATTTAA GAAGCTTCTA GCTGGTTCAT
    · ValMetLeu GlyAlaGly PheAlaGlyGlu AlaGlyLeu AlaProVal
401 TAGTAATGTT AGGTGCTGGA TTTGCAGGCG AAGCTGGATT AGCTCCTGTA
    LeuProAlaPhe IleIleGly MetAlaGly TrpLeuTyrMet IleTyrGlu·
451 TTACCTGCTT TCATTATTGG TATGGCTGGA TGGTTATACA TGATTTATGA
    ·LeuTyrMet GlyGluGlyLys AlaAlaVal SerThrAla SerProAlaVal·
501 GCTATATATG GGTGAAGGTA AGGCTGCTGT AAGTACTGCA AGTCCTGCTG
    · AsnSerAla TyrAsnAla MetMetMetIle IleValVal GlyTrpAla
551 TTAACTCTGC ATACAACGCA ATGATGATGA TTATTGTTGT TGGATGGGCA
    IleTyrProAla GlyTyrAla AlaGlyTyr LeuMetGlyGly GluGlyVal·
601 ATTTATCCTG CTGGATATGC TGCTGGTTAC CTAATGGGTG GCGAAGGTGT
    ·TyrAlaSer AsnLeuAsnLeu IleTyrAsn LeuAlaAsp PheValAsnLys·
651 ATACGCTTCA AACTTAAACC TTATATATAA CCTTGCTGAC TTTGTTAACA
    · IleLeuPhe GlyLeuIle IleTrpAsnVal AlaValLys GluSerSer
701 AGATTCTATT TGGTTTGATC ATTTGGAATG TTGCTGTTAA AGAATCTTCT
    AsnAla
751 AATGCT
```

Figure 1-7

```
    ThrMetGlyLys LeuLeuLeu IleLeuGly SerAlaIleAla LeuProSer·
  1 ACCATGGGTA AATTATTACT GATATTAGGT AGTGCTATTG CACTTCCATC
    ·PheAlaAla AlaGlyGlyAsp LeuAspIle SerAspThr ValGlyValSer·
 51 ATTTGCTGCT GCTGGTGGCG ATCTAGATAT AAGTGATACT GTTGGTGTTT
    · PheTrpLeu ValThrAla GlyMetLeuAla AlaThrVal PhePhePhe
101 CATTCTGGCT GGTTACAGCT GGTATGTTAG CGGCAACTGT GTTCTTTTTT
    ValGluArgAsp GlnValSer AlaLysTrp LysThrSerLeu ThrValSer·
151 GTAGAAAGAG ACCAAGTCAG CGCTAAGTGG AAAACTTCAC TTACTGTATC
    ·GlyLeuIle ThrGlyIleAla PheTrpHis TyrLeuTyr MetArgGlyVal·
201 TGGTTTAATT ACTGGTATAG CTTTTTGGCA TTATCTCTAT ATGAGAGGTG
    · TrpIleAsp ThrGlyAsp ThrProThrVal PheArgTyr IleAspTrp
251 TTTGGATAGA CACTGGTGAT ACCCCAACAG TATTCAGATA TATTGATTGG
    LeuLeuThrVal ProLeuGln MetValGlu PheTyrLeuIle LeuAlaAla·
301 TTATTAACTG TTCCATTACA AATGGTTGAG TTCTATCTAA TTCTTGCTGC
    ·CysThrAsn ValAlaAlaSer LeuPheLys LysLeuLeu AlaGlySerLeu·
351 TTGTACAAAT GTTGCTGCTT CATTATTTAA GAAGCTTCTA GCTGGTTCAT
    · ValMetLeu GlyAlaGly PheAlaGlyGlu AlaGlyLeu AlaProVal
401 TAGTAATGTT AGGTGCTGGA TTTGCAGGCG AAGCTGGATT GGCTCCTGTA
    TrpProAlaPhe IleIleGly MetAlaGly TrpLeuTyrMet IleTyrGlu·
451 TGGCCTGCTT TCATTATTGG TATGGCTGGA TGGTTATACA TGATTTATGA
    ·LeuTyrMet GlyGluGlyLys AlaAlaVal SerThrAla SerProAlaVal·
501 GCTATATATG GGTGAAGGTA AGGCTGCTGT AAGTACTGCA AGTCCTGCTG
    · AsnSerAla TyrAsnAla MetMetValIle IleValVal GlyTrpAla
551 TTAACTCTGC ATACAACGCA ATGATGGTGA TTATTGTTGT TGGATGGGCA
    IleTyrProAla GlyTyrAla AlaGlyTyr LeuMetGlyGly GluGlyVal·
601 ATTTATCCTG CTGGATATGC TGCTGGTTAC CTAATGGGTG GCGAAGGTGT
    ·TyrAlaSer AsnLeuAsnLeu IleTyrAsn LeuAlaAsp LeuValAsnLys·
651 ATACGCTTCA AACTTAAACC TTATATATAA CCTTGCCGAC CTTGTTAACA
    · IleLeuPhe GlyLeuIle IleTrpAsnVal AlaValLys GluSerSer
701 AGATTCTATT TGGTTTGATC ATTTGGAATG TTGCTGTTAA AGAATCTTCT
    AsnAla
751 AATGCT
```

Figure 1-8

```
    ThrMetGlyLys LeuLeuLeu IleLeuGly SerValIleAla LeuProThr·
  1 ACCATGGGTA AATTATTACT GATATTAGGT AGTGTTATTG CACTTCCTAC
    ·PheAlaAla GlyGlyGlyAsp LeuAspAla SerAspTyr ThrGlyValSer·
 51 ATTTGCTGCA GGTGGTGGTG ACCTTGATGC TAGTGATTAC ACTGGTGTTT
    · PheTrpLeu ValThrAla AlaLeuLeuAla SerThrVal PhePhePhe
101 CTTTTTGGTT AGTTACTGCT GCTCTATTAG CATCTACTGT ATTTTTCTTT
    ValGluArgAsp ArgValSer AlaLysTrp LysThrSerLeu ThrValSer·
151 GTTGAAAGAG ATAGAGTTTC TGCAAAATGG AAAACATCAT TAACTGTATC
    ·GlyLeuVal ThrGlyIleAla PheTrpHis TyrMetTyr MetArgGlyVal·
201 TGGTCTTGTT ACTGGTATTG CTTTCTGGCA TTACATGTAC ATGAGAGGGG
    · TrpIleGlu ThrGlyAsp SerProThrVal PheArgTyr IleAspTrp
251 TATGGATTGA GACTGGTGAT TCGCCAACTG TATTTAGATA CATTGATTGG
    LeuLeuThrVal ProLeuLeu IleCysGlu PheTyrLeuIle LeuAlaAla·
301 TTACTAACAG TTCCTCTATT GATATGTGAA TTCTACTTAA TTCTTGCTGC
    ·AlaThrAsn ValAlaAlaGly LeuPheLys LysLeuLeu ValGlySerLeu·
351 TGCAACAAAT GTTGCTGCTG GCCTGTTTAA GAAATTATTG GTTGGTTCTC
    · ValMetLeu ValPheGly TyrMetGlyGlu AlaGlyIle MetAsnAla
401 TTGTTATGCT TGTGTTTGGT TACATGGGTG AGGCAGGAAT TATGAACGCT
    TrpProAlaPhe IleIleGly CysLeuAla TrpValTyrMet IleTyrGlu·
451 TGGCCTGCAT TCATTATTGG GTGTTTAGCT TGGGTATACA TGATTTATGA
    ·LeuTyrAla GlyGluGlyLys SerAlaCys AsnThrAla SerProSerVal·
501 ACTATATGCT GGAGAAGGAA AATCTGCATG TAATACTGCA AGTCCTTCGG
    · GlnSerAla TyrAsnThr MetMetAlaIle IleValPhe GlyTrpAla
551 TTCAATCAGC TTACAACACA ATGATGGCTA TCATAGTCTT CGGTTGGGCA
    IleTyrProVal GlyTyrPhe ThrGlyTyr LeuMetGlyAsp GlyGlySer·
601 ATTTATCCTG TAGGTTATTT CACAGGTTAC CTAATGGGTG ACGGTGGATC
    ·AlaLeuAsn LeuAsnLeuIle TyrAsnLeu AlaAspPhe ValAsnLysIle·
651 AGCTCTTAAC TTAAACCTTA TTTATAACCT TGCTGACTTT GTTAACAAGA
    · LeuPheGly LeuIleIle TrpAsnValAla ValLysGlu SerSerAsn
701 TTCTATTTGG TTTAATTATA TGGAATGTTG CTGTTAAAGA ATCTTCTAAT
    Ala
751 GCT
```

Figure 1-9

```
    ThrMetGlyLys LeuLeuLeu IleLeuGly SerValIleAla LeuProThr·
  1 ACCATGGGTA AATTATTACT GATATTAGGT AGTGTTATTG CACTTCCTAC
    ·PheAlaAla GlyGlyGlyAsp LeuAspAla SerAspTyr ThrGlyValSer·
 51 ATTTGCTGCA GGTGGTGGTG ACCTTGATGC TAGTGATTAC ACTGGTGTTT
    · PheTrpLeu ValThrAla AlaLeuLeuAla SerThrVal PhePhePhe
101 CTTTTTGGTT AGTTACTGCT GCTTTATTAG CATCTACTGT ATTTTTCTTT
    ValGluArgAsp ArgValSer AlaLysTrp LysThrSerLeu ThrValSer·
151 GTTGAAAGAG ATAGAGTTTC TGCAAAATGG AAAACATCAT TAACTGTATC
    ·GlyLeuVal ThrGlyIleAla PheTrpHis TyrMetTyr MetArgGlyVal·
201 TGGTCTTGTT ACTGGTATTG CTTTCTGGCA TTACATGTAC ATGAGAGGGG
    · TrpIleGlu ThrGlyAsp SerProThrVal PheArgTyr IleAspTrp
251 TATGGATTGA AACTGGTGAT TCGCCAACTG TATTTAGATA CATTGATTGG
    LeuLeuThrVal ProLeuLeu IleCysGlu PheTyrLeuIle LeuAlaAla·
301 TTACTAACAG TTCCTCTATT AATATGTGAA TTCTACTTAA TTCTTGCTGC
    ·AlaThrAsn ValAlaAlaGly LeuPheLys LysLeuLeu ValGlySerLeu·
351 TGCTACTAAT GTTGCTGCTG GCCTGTTTAA GAAATTATTG GTTGGTTCTC
    · ValMetLeu ValPheGly TyrMetGlyGlu AlaGlyIle MetAsnAla
401 TTGTTATGCT TGTGTTTGGT TACATGGGTG AAGCAGGAAT TATGAACGCT
    TrpGlyAlaPhe ValIleGly CysLeuAla TrpValTyrMet IleTyrGlu·
451 TGGGGTGCAT TCGTTATTGG GTGTTTAGCT TGGGTATACA TGATTTATGA
    ·LeuTrpLeu GlyGluGlyLys AlaAlaCys AsnThrAla SerProAlaVal·
501 GCTTTGGCTT GGAGAAGGAA AAGCTGCGTG TAATACAGCA AGTCCTGCTG
    · GlnSerAla TyrAsnThr MetMetMetIle IleIlePhe GlyTrpAla
551 TTCAGTCAGC TTACAACACA ATGATGATGA TCATCATCTT TGGTTGGGCA
    IleTyrProVal GlyTyrPhe ThrGlyTyr LeuMetGlyAsp GlyGlySer·
601 ATTTATCCTG TAGGTTATTT CACAGGTTAC CTAATGGGTG ACGGTGGATC
    ·AlaLeuAsn LeuAsnLeuIle TyrAsnLeu AlaAspPhe ValAsnLysIle·
651 AGCACTTAAC TTAAACCTTA TCTATAACCT TGCTGACTTT GTTAACAAGA
    · LeuPheGly LeuIleIle TrpAsnValAla ValLysGlu SerSerAsn
701 TTCTATTTGG TTTAATTATA TGGAATGTTG CTGTTAAAGA ATCTTCTAAT
    Ala
751 GCT
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Figure 1-10

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    ThrMetGlyLys LeuLeuLeu IleLeuGly SerValIleAla LeuProThr·
  1 ACCATGGGTA AATTATTACT GATATTAGGT AGTGTTATTG CACTTCCTAC
    ·PheAlaAla GlyGlyGlyAsp LeuAspAla SerAspTyr ThrGlyValSer·
 51 ATTTGCTGCA GGTGGTGGTG ACCTTGATGC TAGTGATTAC ACTGGTGTTT
    · PheTrpLeu ValThrAla AlaLeuLeuAla SerThrVal PhePhePhe
101 CTTTTTGGTT AGTTACTGCT GCTTTATTAG CATCTACTGT ATTTTTCTTT
    ValGluArgAsp ArgValSer AlaLysTrp LysThrSerLeu ThrValSer·
151 GTTGAAAGAG ATAGAGTTTC TGCAAAATGG AAAACATCAT TAACTGTATC
    ·GlyLeuVal ThrGlyIleAla PheTrpHis TyrMetTyr MetArgGlyVal·
201 TGGTCTTGTT ACTGGTATTG CTTTCTGGCA TTACATGTAC ATGAGAGGGG
    · TrpIleGlu ThrGlyAsp SerProThrVal PheArgTyr IleAspTrp
251 TATGGATTGA AACTGGTGAT TCGCCAACTG TATTTAGATA CATTGATTGG
    LeuLeuThrVal ProLeuLeu IleCysGlu PheTyrLeuIle LeuAlaAla·
301 TTACTAACAG TTCCTCTATT AATATGTGAA TTCTACTTAA TTCTTGCTGC
    ·AlaThrAsn ValAlaAlaGly LeuPheLys LysLeuLeu ValGlySerLeu·
351 TGCAACTAAT GTTGCTGCTG GCCTGTTTAA GAAATTATTG GTTGGTTCTC
    · ValMetLeu ValPheGly TyrMetGlyGlu AlaGlyIle MetAsnAla
401 TTGTTATGCT TGTGTTTGGT TACATGGGTG AGGCAGGAAT TATGAACGCT
    TrpGlyAlaPhe ValIleGly CysLeuAla TrpValTyrMet IleTyrGlu·
451 TGGGGTGCAT TCGTTATTGG GTGTTTAGCT TGGGTATACA TGATTTATGA
    ·LeuTrpAla GlyGluGlyLys AlaAlaCys AsnThrAla SerProAlaVal·
501 ACTATGGGCT GGAGAAGGCA AGGCTGCATG TAATACTGCA AGTCCTGCTG
    · GlnSerAla TyrAsnThr MetMetTyrIle IleIlePhe GlyTrpAla
551 TGCAATCAGC TTACAACACA ATGATGTATA TAATCATCTT TGGTTGGGCA
    IleTyrProVal GlyTyrPhe ThrGlyTyr LeuMetGlyAsp GlyGlySer·
601 ATTTATCCTG TAGGTTATTT CACAGGTTAC CTAATGGGTG ACGGTGGATC
    ·AlaLeuAsn LeuAsnLeuIle TyrAsnLeu AlaAspPhe ValAsnLysIle·
651 AGCTCTTAAC TTAAACCTTA TCTATAACCT TGCTGACTTT GTTAACAAGA
    · LeuPheGly LeuIleIle TrpAsnValAla ValLysGlu SerSerAsn
701 TTCTATTTGG TTTAATTATA TGGAATGTTG CTGTTAAAGA ATCTTCTAAT
    Ala
751 GCT
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Figure 1-11

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    ThrMetGlyLys LeuLeuLeu IleLeuGly SerValIleAla LeuProThr·
  1 ACCATGGGTA AATTATTACT GATATTAGGT AGTGTTATTG CACTTCCTAC
    ·PheAlaAla GlyGlyGlyAsp LeuAspAla SerAspTyr ThrGlyValSer·
 51 ATTTGCTGCA GGTGGCGGTG ACCTTGATGC TAGTGATTAC ACTGGTGTTT
    · PheTrpLeu ValThrAla AlaLeuLeuAla SerThrVal PhePhePhe
101 CTTTTTGGTT AGTTACAGCT GCTCTATTAG CATCTACTGT ATTTTTCTTT
    ValGluArgAsp ArgValSer AlaLysTrp LysThrSerLeu ThrValSer·
151 GTTGAAAGAG ATAGAGTTTC TGCAAAATGG AAAACATCAT TAACTGTATC
    ·GlyLeuVal ThrGlyIleAla PheTrpHis TyrMetTyr MetArgGlyVal·
201 TGGTCTTGTT ACTGGTATTG CTTTCTGGCA TTACATGTAC ATGAGAGGGG
    · TrpIleGlu ThrGlyAsp SerProThrVal PheArgTyr IleAspTrp
251 TATGGATTGA AACTGGTGAT TCGCCAACTG TATTTAGATA CATTGATTGG
    LeuLeuThrVal ProLeuLeu IleCysGlu PheTyrLeuIle LeuAlaAla·
301 TTACTAACAG TTCCTCTATT AATATGTGAA TTCTACTTAA TTCTTGCTGC
    ·AlaThrAsn ValAlaGlySer LeuPheLys LysLeuLeu ValGlySerLeu·
351 TGCTACTAAT GTTGCTGGAT CATTATTTAA GAAATTACTA GTTGGTTCTC
    · ValMetLeu ValPheGly TyrMetGlyGlu AlaGlnIle MetAlaAla
401 TTGTTATGCT TGTGTTTGGT TACATGGGTG AAGCACAAAT TATGGCTGCA
    TrpProAlaPhe IleIleGly CysLeuAla TrpValTyrMet IleTyrGlu·
451 TGGCCTGCAT TCATTATTGG GTGTTTAGCT TGGGTATACA TGATTTATGA
    ·LeuTyrAla GlyGluGlyLys SerAlaCys AsnThrAla SerProSerVal·
501 ACTATATGCT GGAGAAGGAA AATCTGCATG TAATACTGCA AGTCCTTCGG
    · GlnSerAla TyrAsnThr MetMetAlaIle IleValPhe GlyTrpAla
551 TTCAATCAGC TTACAACACA ATGATGGCTA TCATAGTCTT CGGTTGGGCA
    IleTyrProVal GlyTyrPhe ThrGlyTyr LeuMetGlyAsp GlyGlySer·
601 ATTTATCCTG TAGGTTATTT CACAGGTTAC CTAATGGGTG ACGGTGGGTC
    ·AlaLeuAsn LeuAsnLeuIle TyrAsnLeu AlaAspPhe ValAsnLysIle·
651 AGCTCTTAAC TTAAACCTTA TTTATAACCT TGCTGACTTT GTTAACAAGA
    · LeuLeuGly LeuIleIle TrpAsnValAla ValLysGlu SerSerAsn
701 TTCTACTTGG TTTAATTATA TGGAATGTTG CTGTTAAAGA ATCTTCTAAT
    Ala
751 GCT
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Figure 1-12

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    ThrMetGlyLys LeuLeuLeu IleLeuGly SerValIleAla LeuProThr·
  1 ACCATGGGTA AATTATTACT GATATTAGGT AGTGTTATTG CACTTCCTAC
    ·PheAlaAla GlyGlyGlyAsp LeuAspAla SerAspTyr ThrGlyValSer·
 51 ATTTGCTGCA GGTGGTGGTG ACCTTGATGC TAGTGATTAC ACTGGTGTTT
    · PheTrpLeu ValThrAla AlaLeuLeuAla SerThrVal PhePhePhe
101 CTTTTTGGTT AGTTACTGCT GCTTTATTAG CATCTACTGT ATTTTTCTTT
    ValGluArgAsp ArgValSer AlaLysTrp LysThrSerLeu ThrValSer·
151 GTTGAAAGAG ATAGAGTTTC TGCAAAATGG AAAACATCAT TAACTGTATC
    ·GlyLeuVal ThrGlyIleAla PheTrpHis TyrMetTyr MetArgGlyVal·
201 TGGTCTTGTT ACTGGTATTG CTTTCTGGCA TTACATGTAC ATGAGAGGGG
    · TrpIleGlu ThrGlyAsp SerProThrVal PheArgTyr IleAspTrp
251 TATGGATTGA AACTGGTGAT TCGCCAACTG TATTTAGATA CATTGATTGG
    LeuLeuThrVal ProLeuLeu IleCysGlu PheTyrLeuIle LeuAlaAla·
301 TTACTAACAG TTCCTCTATT AATATGTGAA TTCTACTTAA TTCTTGCTGC
    ·AlaAlaAsn ValAlaGlySer LeuPheLys LysLeuLeu ValGlySerLeu·
351 TGCAGCTAAT GTTGCTGGAT CATTATTTAA GAAATTACTA GTTGGTTCTC
    · ValMetLeu ValPheGly TyrMetGlyGlu AlaGlyIle MetAlaAla
401 TTGTTATGCT TGTGTTTGGT TACATGGGTG AAGCAGGAAT CATGGCTGCA
    TrpProAlaPhe IleIleGly CysLeuAla TrpValTyrMet IleTyrGlu·
451 TGGCCTGCAT TCATTATTGG GTGTTTAGCT TGGGTATACA TGATTTATGA
    ·LeuTrpAla GlyGluGlyLys SerAlaCys AsnThrAla SerProAlaVal·
501 ATTATGGGCT GGAGAAGGAA AATCTGCATG TAATACTGCA AGTCCTGCTG
    · GlnSerAla TyrAsnThr MetMetTyrIle IleIlePhe GlyTrpAla
551 TGCAATCAGC CTACAACACA ATGATGTATA TTATCATCTT TGGTTGGGCG
    IleTyrProVal GlyTyrPhe ThrGlyTyr LeuMetGlyAsp GlyGlySer·
601 ATTTATCCTG TAGGTTATTT CACAGGTTAC TTGATGGGTG ACGGTGGATC
    ·AlaLeuAsn LeuAsnLeuIle TyrAsnLeu AlaAspPhe ValAsnLysIle·
651 AGCTCTTAAC TTAAACCTTA TCTATAACCT TGCTGACTTT GTTAACAAGA
    · LeuPheGly LeuIleIle TrpAsnValAla ValLysGlu SerSer
701 TTCTATTTGG TTTAATTATA TGGAATGTTG CTGTTAAAGA ATCTTCTA
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Figure 1-13

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    ThrMetGlyLys LeuLeuLeu IleIleGly SerValIleAla LeuProThr·
  1 ACCATGGGTA AATTATTACT GATAATAGGT AGTGTTATTG CACTTCCTAC
    ·PheAlàAla GlyGlyGlyAsp LeuAspAla SerAspTyr ThrGlyValSer·
 51 ATTTGCTGCA GGTGGCGGTG ACCTTGATGC TAGTGATTAC ACTGGTGTTT
    · PheTrpLeu ValThrAla AlaLeuLeuAla SerThrVal PhePhePhe
101 CTTTTTGGTT AGTTACAGCT GCTCTATTAG CATCTACTGT ATTTTTCTTT
    ValGluArgAsp ArgValSer AlaLysTrp LysThrSerLeu ThrValSer·
151 GTTGAAAGAG ATAGAGTTTC TGCAAAATGG AAAACATCAT TAACTGTATC
    ·GlyLeuVal ThrGlyIleAla PheTrpHis TyrMetTyr MetArgGlyVal·
201 TGGTCTTGTT ACTGGTATTG CTTTCTGGCA TTACATGTAC ATGAGAGGAG
    · TrpIleGlu ThrGlyAsp SerProThrVal PheArgTyr IleAspTrp
251 TATGGATTGA AACTGGTGAT TCGCCAACTG TATTTAGATA CATTGATTGG
    LeuLeuThrVal ProLeuLeu IleCysGlu PheTyrLeuIle LeuAlaAla·
301 TTACTAACAG TTCCTTTATT AATATGTGAA TTCTACTTAA TTCTTGCTGC
    ·AlaThrAsn ValAlaGlySer LeuPheLys LysLeuLeu ValGlySerLeu·
351 TGCAACTAAT GTTGCCGGCT CATTATTTAA GAAACTTCTA GTTGGTTCTC
    · ValMetLeu ValPheGly TyrMetGlyGlu AlaGlyIle MetAlaAla
401 TTGTTATGCT TGTGTTTGGT TACATGGGTG AAGCAGGAAT TATGGCAGCT
    TrpProAlaPhe IleIleGly CysLeuAla TrpValTyrMet IleTyrGlu·
451 TGGCCTGCAT TCATTATTGG GTGTTTAGCT TGGGTATATA TGATTTATGA
    ·LeuTyrAla GlyGluGlyLys SerAlaCys AsnThrAla SerProAlaVal·
501 ACTATATGCT GGAGAAGGAA AATCTGCATG TAATACAGCA AGTCCTGCTG
    · GlnSerAla TyrAsnThr MetMetTyrIle IleValPhe GlyTrpAla
551 TGCAATCAGC TTACAACACA ATGATGTATA TTATCGTCTT TGGTTGGGCG
    IleTyrProVal GlyTyrPhe ThrGlyTyr LeuMetGlyAsp GlyGlySer·
601 ATTTATCCTG TAGGTTATTT CACAGGTTAC CTGATGGGTG ACGGTGGATC
    ·AlaLeuAsn LeuAsnLeuIle TyrAsnLeu AlaAspPhe ValAsnLysIle·
651 AGCTCTTAAC TTAAACCTTA TCTATAACCT TGCTGACTTT GTTAACAAGA
    · LeuPheGly LeuIleIle TrpAsnValAla ValLysGlu SerSerAsn
701 TTCTATTTGG TTTAATTATA TGGAATGTTG CTGTTAAAGA ATCTTCTAAT
    Ala
751 GCT
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Figure 1-14

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    ThrMetGlyLys LeuLeuLeu IleLeuGly SerValIleAla LeuProThr·
  1 ACCATGGGTA AATTATTACT GATATTAGGT AGTGTTATTG CACTTCCTAC
    ·PheAlaAla GlyGlyGlyAsp LeuAspAla SerAspTyr ThrGlyValSer·
 51 ATTTGCTGCA GGTGGTGGTG ACCTTGATGC TAGTGATTAC ACTGGTGTTT
    · PheTrpLeu ValThrAla AlaLeuLeuAla SerThrVal PhePhePhe
101 CTTTTTGGTT AGTTACTGCT GCTCTATTAG CATCTACTGT ATTTTTCTTT
    ValGluArgAsp ArgValSer AlaLysTrp LysThrSerLeu ThrValSer·
151 GTTGAAAGAG ATAGAGTTTC TGCAAAATGG AAAACATCAT TAACTGTATC
    ·GlyLeuVal ThrGlyIleAla PheTrpHis TyrMetTyr MetArgGlyVal·
201 GGGTCTTGTT ACTGGTATTG CTTTCTGGCA TTACATGTAC ATGAGAGGGG
    · TrpIleGlu ThrGlyAsp SerProThrVal PheArgTyr IleAspTrp
251 TATGGATTGA GACTGGTGAT TCGCCAACTG TATTTAGATA CATTGATTGG
    LeuLeuThrVal ProLeuLeu IleCysGlu PheTyrLeuIle LeuAlaAla·
301 TTACTAACAG TTCCTCTATT GATATGTGAA TTCTACTTAA TTCTTGCTGC
    ·AlaThrAsn ValAlaAlaGly LeuPheLys LysLeuLeu ValGlySerLeu·
351 TGCAACAAAT GTTGCTGCTG GCCTGTTTAA GAAATTATTG GTTGGTTCTC
    · ValMetLeu ValPheGly TyrMetGlyGlu AlaGlyIle MetAsnAla
401 TTGTTATGCT TGTGTTTGGT TACATGGGTG AGGCAGGAAT TATGAACGCT
    TrpGlyAlaPhe ValIleGly CysLeuAla TrpValTyrMet IleTyrGlu·
451 TGGGGTGCAT TCGTTATTGG GTGTTTAGCT TGGGTATACA TGATTTATGA
    ·LeuTrpAla GlyGluGlyLys AlaAlaCys AsnThrAla SerProAlaVal·
501 ACTATGGGCT GGAGAAGGCA AGGCTGCATG TAATACTGCA AGTCCTGCTG
    · GlnSerAla TyrAsnThr MetMetTyrIle IleIlePhe GlyTrpAla
551 TGCAATCAGC TTACAACACA ATGATGTATA TAATCATCTT TGGTTGGGCA
    IleTyrProVal GlyTyrPhe ThrGlyTyr LeuMetGlyAsp GlyGlySer·
601 ATTTATCCTG TAGGTTATTT CACAGGTTAC CTAATGGGTG ACGGTGGATC
    ·AlaLeuAsn LeuAsnLeuIle TyrAsnLeu AlaAspPhe ValAsnLysAsn·
651 AGCTCTTAAC TTAAACCTTA TCTATAACCT TGCTGACTTT GTTAACAAGA
    · LeuPheGly LeuIleIle TrpAsnValAla ValLysGlu SerSer
701 ATCTATTTGG TTTAATTATA TGGAATGTTG CTGTTAAAGA ATCTTCTA
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Figure 1-15

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    ThrMetGlyLys LeuLeuArg IleLeuGly SerValIleAla LeuProThr·
  1 ACCATGGGTA AATTATTACG GATATTAGGT AGTGTTATTG CACTTCCTAC
    ·PheAlaAla GlyGlyGlyAsp LeuAspAla SerAspTyr ThrGlyValSer·
 51 ATTTGCTGCA GGTGGCGGTG ACCTTGATGC TAGTGATTAC ACTGGTGTTT
    · PheTrpLeu ValThrAla AlaLeuLeuAla SerThrVal PhePhePhe
101 CTTTTTGGTT AGTTACAGCT GCTCTATTAG CATCTACTGT ATTTTTCTTT
    ValGluArgAsp ArgValSer AlaLysTrp LysThrSerLeu ThrValSer·
151 GTTGAAAGAG ATAGAGTTTC TGCAAAATGG AAAACATCAT TAACTGTATC
    ·GlyLeuVal ThrGlyIleAla PheTrpHis TyrMetTyr MetArgGlyVal·
201 TGGTCTTGTT ACTGGTATTG CTTTCTGGCA TTACATGTAT ATGAGAGGAG
    · TrpIleGlu ThrGlyAsp SerProThrVal PheArgTyr IleAspTrp
251 TATGGATTGA AACTGGTGAT TCGCCAACTG TATTTAGATA CATTGATTGG
    LeuLeuThrVal ProLeuLeu IleCysGlu PheTyrLeuIle LeuAlaAla·
301 TTACTAACAG TTCCTTTATT AATATGTGAA TTCTACTTAA TTCTTGCTGC
    ·AlaThrAsn ValAlaGlySer LeuPheLys LysLeuLeu ValGlySerLeu·
351 TGCAACTAAT GTTGCTGGAT CATTATTTAA GAAATTACTA GTTGGTTCTC
    · ValMetLeu ValPheGly TyrMetGlyGlu AlaGlyIle MetAlaAla
401 TTGTTATGCT TGTGTTTGGT TACATGGGTG AAGCAGGAAT CATGGCTGCA
    TrpProAlaPhe IleIleGly CysLeuAla TrpValTyrMet IleTyrGlu·
451 TGGCCTGCAT TCATTATTGG GTGTTTAGCT TGGGTATACA TGATTTATGA
    ·LeuTrpAla GlyGluGlyLys SerAlaCys AsnThrAla SerProAlaVal·
501 ACTATGGGCT GGAGAAGGAA AATCTGCATG TAATACTGCA AGTCCTGCTG
    · GlnSerAla TyrAsnThr MetMetTyrIle IleIleVal GlyTrpAla
551 TGCAATCAGC TTACAACACA ATGATGTATA TCATCATCGT TGGTTGGGCG
    IleTyrProVal GlyTyrPhe ThrGlyTyr LeuMetGlyAsp GlyGlySer·
601 ATTTATCCTG TAGGTTATTT CACAGGTTAC CTGATGGGTG ACGGTGGATC
    ·AlaLeuAsn LeuAsnLeuIle TyrAsnLeu AlaAspPhe ValAsnLysIle·
651 AGCTCTTAAC TTAAACCTTA TCTATAACCT TGCTGACTTT GTTAACAAGA
    · LeuPheGly LeuIleIle TrpAsnValAla ValLysGlu SerSerAsn
701 TTCTATTTGG TTTAATTATA TGGAATGTTG CTGTTAAAGA ATCTTCTAAT
    Ala
751 GCT
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Figure 1-16

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    ThrMetGlyLys LeuLeuLeu IleLeuGly SerValIleAla LeuProThr·
  1 ACCATGGGTA AATTATTACT GATATTAGGT AGTGTTATTG CACTTCCTAC
    ·PheAlaAla GlyGlyGlyAsp LeuAspAla SerAspTyr ThrGlyValSer·
 51 ATTTGCTGCA GGTGGCGGTG ACCTTGATGC TAGTGATTAC ACTGGTGTTT
    · PheTrpLeu ValThrAla AlaLeuLeuAla SerThrVal PhePhePhe
101 CTTTTTGGTT AGTTACAGCT GCTCTATTAG CATCTACTGT ATTTTTCTTT
    ValGluArgAsp ArgValSer AlaLysTrp LysThrSerLeu ThrValSer·
151 GTTGAAAGAG ATAGAGTTTC TGCAAAATGG AAAACATCAT TAACTGTATC
    ·GlyLeuVal ThrGlyIleAla PheTrpHis TyrMetTyr MetArgGlyVal·
201 TGGTCTTGTT ACTGGTATTG CTTTCTGGCA TTACATGTAC ATGAGAGGAG
    · TrpIleGlu ThrGlyAsp SerProThrVal PheArgTyr IleAspTrp
251 TATGGATTGA AACTGGTGAT TCGCCAACTG TATTTAGATA CATTGATTGG
    LeuLeuThrVal ProLeuLeu IleCysGlu PheTyrLeuIle LeuAlaAla·
301 TTACTAACAG TTCCTTTATT AATATGTGAA TTCTACTTAA TTCTTGCTGC
    ·AlaThrAsn ValAlaGlySer LeuPheLys LysLeuLeu ValGlySerLeu·
351 TGCAACTAAT GTTGCCGGCT CATTATTTAA GAAACTTCTA GTTGGTTCTC
    · ValMetLeu ValPheGly TyrMetGlyGlu AlaGlyIle MetAlaAla
401 TTGTTATGCT TGTGTTTGGT TACATGGGTG AAGCAGGAAT TATGGCAGCT
    TrpProAlaPhe IleIleGly CysLeuAla TrpValTyrMet IleTyrGlu·
451 TGGCCTGCAT TCATTATTGG GTGTTTAGCT TGGGTATACA TGATTTATGA
    ·LeuTyrAla GlyGluGlyLys SerAlaCys AsnThrAla SerProSerVal·
501 ACTATATGCT GGAGAAGGAA AATCTGCATG TAATACTGCA AGTCCTTCGG
    · GlnSerAla TyrAsnThr MetMetAlaIle IleValPhe GlyTrpAla
551 TTCAATCAGC TTACAACACA ATGATGGCTA TCATAGTCTT CGGTTGGGCA
    IleTyrProVal GlyTyrPhe ThrGlyTyr LeuMetGlyAsp GlyGlySer·
601 ATTTATCCTG TAGGTTATTT CACAGGTTAC CTAATGGGTG ACGGTGGATC
    ·AlaLeuAsn LeuAsnLeuIle TyrAsnLeu AlaAspPhe ValAsnLysIle·
651 AGCTCTTAAC TTAAACCTTA TTTATAACCT TGCTGACTTT GTTAACAAGA
    · LeuPheGly LeuIleIle TrpAsnValAla ValLysGlu SerSerAsn
701 TTCTATTTGG TTTAATTATA TGGAATGTTG CTGTTAAAGA ATCTTCTAAT
    Ala
751 GCT
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Figure 1-17

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    ThrMetGlyLys LeuLeuLeu IleLeuGly SerValIleAla LeuProThr·
  1 ACCATGGGTA AATTATTACT GATATTAGGT AGTGTTATTG CACTTCCTAC
    ·PheAlaAla GlyGlyGlyAsp LeuAspAla SerAspTyr ThrGlyValSer·
 51 ATTTGCTGCA GGTGGTGGTG ACCTTGATGC TAGTGATTAC ACTGGTGTTT
    · PheTrpLeu ValThrAla AlaLeuLeuAla SerThrVal PhePhePhe
101 CTTTTTGGTT AGTTACTGCT GCTTTATTAG CATCTACTGT ATTTTTCTTT
    ValGluArgAsp ArgValSer AlaLysTrp LysThrSerLeu ThrValSer·
151 GTTGAAAGAG ATAGAGTTTC TGCAAAATGG AAAACATCAT TAACTGTATC
    ·GlyLeuVal ThrGlyIleAla PheTrpHis TyrMetTyr MetArgGlyVal·
201 TGGTCTTGTT ACTGGTATTG CTTTCTGGCA TTACATGTAC ATGAGAGGGG
    · TrpIleGlu ThrGlyAsp SerProThrVal PheArgTyr IleAspTrp
251 TATGGATTGA AACTGGTGAT TCGCCAACTG TATTTAGATA CATTGATTGG
    LeuLeuThrVal ProLeuLeu IleCysGlu PheTyrLeuIle LeuAlaAla·
301 TTACTAACAG TTCCTCTATT AATATGTGAA TTCTACTTAA TTCTTGCTGC
    ·AlaThrAsn ValAlaGlySer LeuPheLys LysLeuLeu ValGlySerLeu·
351 TGCTACTAAT GTTGCCGGCT CATTATTTAA GAAACTTCTA GTTGGTTCTC
    · ValMetLeu ValPheGly TyrMetGlyGlu AlaGlyIle MetAlaAla
401 TTGTTATGCT TGTGTTTGGT TACATGGGTG AAGCAGGAAT TATGGCAGCT
    TrpProAlaPhe IleIleGly CysLeuAla TrpValTyrMet IleTyrGlu·
451 TGGCCTGCAT TCATTATTGG GTGTTTAGCT TGGGTATACA TGATTTATGA
    ·LeuTyrAla GlyGluGlyLys SerAlaCys AsnThrAla SerProSerVal·
501 ACTATATGCT GGAGAAGGAA AATCTGCATG TAATACTGCA AGTCCTTCGG
    · GlnSerAla TyrAsnThr MetMetAlaIle IleValPhe GlyTrpAla
551 TTCAATCAGC TTACAACACA ATGATGGCTA TCATAGTCTT CGGTTGGGCA
    IleTyrProVal GlyTyrPhe ThrGlyTyr LeuMetGlyAsp GlyGlySer·
601 ATTTATCCTG TAGGTTATTT CACAGGTTAC CTAATGGGTG ACGGTGGATC
    ·AlaLeuAsn LeuAsnLeuIle TyrAsnLeu AlaAspPhe ValAsnLysIle·
651 AGCTCTTAAC TTAAACCTTA TTTATAACCT TGCTGACTTT GTTAACAAGA
    · LeuPheGly LeuIleIle TrpAsnAlaAla ValLysGlu SerSerAsn
701 TTCTATTTGG TTTAATTATA TGGAATGCTG CTGTTAAAGA ATCTTCTAAT
    Ala
751 GCT
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Figure 1-18

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     ThrMetGlyLys LeuLeuLeu IleLeuGly SerValIleAla LeuProThr·
   1 ACCATGGGTA AATTATTACT GATATTAGGT AGTGTTATTG CACTTCCTAC
     ·PheAlaAla GlyGlyGlyAsp LeuAspAla SerAspTyr ThrGlyValSer·
  51 ATTTGCTGCA GGTGGTGGTG ACCTTGATGC TAGTGATTAC ACTGGTGTTT
     · PheTrpLeu ValThrAla AlaLeuLeuAla SerThrVal PhePhePhe
 101 CTTTTTGGTT AGTTACTGCT GCTTTATTAG CATCTACTGT ATTTTTCTTT
     ValGluArgAsp ArgValSer AlaLysTrp LysThrSerLeu ThrValSer·
 151 GTTGAAAGAG ATAGAGTTTC TGCAAAATGG AAAACATCAT TAACTGTATC
     ·GlyLeuVal ThrGlyIleAla PheTrpHis TyrMetTyr MetArgGlyVal·
 201 TGGTCTTGTT ACTGGTATTG CTTTCTGGCA TTACATGTAT ATGAGAGGGG
     · TrpIleGlu ThrGlyAsp SerProThrVal PheArgTyr IleAspTrp
 251 TATGGATTGA AACTGGTGAT TCGCCAACTG TATTTAGATA CATAGATTGG
     LeuLeuThrVal ProLeuLeu IleCysGlu PheTyrLeuIle LeuAlaAla·
 301 TTACTAACAG TTCCTTTATT AATATGTGAA TTCTACTTAA TTCTTGCCGC
     ·AlaThrAsn ValAlaGlySer LeuPheLys LysLeuLeu ValGlySerLeu·
 351 TGCAACTAAT GTTGCTGGAT CATTATTTAA GAAATTACTT GTTGGTTCTC
     · ValMetLeu ValPheGly TyrMetGlyGlu AlaGlyIle MetAlaAla
 401 TTGTTATGCT TGTGTTTGGT TACATGGGTG AAGCAGGAAT CATGGCTGCA
     TrpProAlaPhe IleIleGly CysLeuAla TrpValTyrMet IleTyrGlu·
 451 TGGCCTGCAT TCATTATTGG GTGTTTAGCT TGGGTATACA TGATTTATGA
     ·LeuTrpAla GlyGluGlyLys SerAlaCys AsnThrAla SerProAlaVal·
 501 ACTATGGGCT GGAGAAGGAA AATCTGCATG TAATACTGCA AGTCCTGCTG
     · GlnSerAla TyrAsnThr MetMetTyrIle IleIlePhe GlyTrpAla
 551 TGCAATCAGC TTACAACACA ATGATGTATA TCATCATCTT TGGTTGGGCG
     IleTyrProVal GlyTyrPhe ThrGlyTyr LeuMetGlyAsp GlyGlySer·
 601 ATTTATCCTG TAGGTTATTT CACAGGTTAC CTTATGGGTG ACGGTGGATC
     ·AlaLeuAsn LeuAsnLeuIle TyrAsnLeu AlaAspPhe ValAsnLysIle·
 651 AGCACTTAAC TTAAACCTTA TTTATAACCT TGCTGACTTT GTTAACAAGA
     · LeuPheGly LeuIleIle TrpAsnValAla ValLysGlu SerSerAsn
 701 TTCTATTTGG TTTAATTATA TGGAATGTTG CTGTTAAAGA ATCTTCTAAT
     Ala
 751 GCT
```

Figure 1-19

```
    ThrMetGlyLys LeuLeuLeu IleLeuGly SerValIleAla LeuProThr·
  1 ACCATGGGTA AATTATTACT GATATTAGGT AGTGTTATTG CACTTCCTAC
    ·PheAlaAla GlyGlyGlyAsp LeuAspAla SerAspTyr ThrGlyValSer·
 51 ATTTGCTGCA GGTGGCGGTG ACCTTGATGC TAGTGATTAC ACTGGTGTTT
    · PheTrpLeu ValThrAla AlaLeuLeuAla SerThrVal PhePhePhe
101 CTTTTTGGTT AGTTACAGCT GCTCTATTAG CGTCTACTGT ATTTTTCTTT
    ValGluArgAsp ArgValSer AlaLysTrp LysThrSerLeu ThrValSer·
151 GTTGAAAGAG ATAGAGTTTC TGCAAAATGG AAAACATCAT TAACTGTATC
    ·GlyLeuVal ThrGlyIleAla PheTrpHis TyrMetTyr MetArgGlyVal·
201 TGGTCTTGTT ACTGGTATTG CTTTCTGGCA TTACATGTAT ATGAGAGGAG
    · TrpIleGlu ThrGlyAsp SerProThrVal PheArgTyr IleAspTrp
251 TATGGATTGA AACTGGTGAT TCGCCAACTG TATTTAGATA CATTGATTGG
    LeuLeuThrVal ProLeuLeu IleCysGlu PheTyrLeuIle LeuAlaAla·
301 TTACTAACAG TTCCTTTATT AATATGTGAA TTCTACTTAA TTCTTGCTGC
    ·AlaThrAsn ValAlaGlySer LeuPheLys LysLeuLeu ValGlySerLeu·
351 TGCAACTAAT GTTGCCGGCT CATTATTTAA GAAACTTCTA GTTGGTTCTC
    · ValMetLeu ValPheGly TyrMetGlyGlu AlaGlyIle MetAlaAla
401 TTGTTATGCT TGTGTTTGGT TACATGGGTG AAGCAGGAAT AATGGCGGCT
    TrpProAlaPhe IleValGly CysLeuAla TrpValTyrMet IleTyrGlu·
451 TGGCCTGCAT TCATCGTTGG ATGTTTAGCA TGGGTATATA TGATTTATGA
    ·LeuTrpAla GlyGluGlyLys SerAlaCys AsnThrAla SerProAlaVal·
501 ACTATGGGCT GGTGAAGGAA AATCTGCATG TAATACTGCA AGTCCTGCTG
    · GlnSerAla TyrAsnThr MetMetTyrIle IleIleVal GlyTrpAla
551 TACAGTCAGC TTACAACACA ATGATGTATA TCATCATCGT TGGTTGGGCA
    IleTyrProVal GlyTyrPhe ThrGlyTyr LeuMetGlyAsp GlyGlySer·
601 ATTTATCCTG TAGGTTATTT CACAGGTTAC CTAATGGGTG ACGGTGGATC
    ·AlaLeuAsn LeuAsnLeuIle TyrAsnLeu AlaAspPhe ValAsnLysIle·
651 AGCTCTTAAT CTAAACCTTA TTTATAACCT TGCTGACTTT GTTAACAAGA
    · LeuPheGly LeuIleIle TrpAsnValAla ValLysGlu SerSerAsn
701 TTCTATTTGG TTTAATTATA TGGAATGTTG CTGTTAAAGA ATCTTCTAAT
    Ala
751 GCT
```

Figure 1-20

```
    ThrMetGlyLys LeuLeuLeu IleLeuGly SerAlaIleAla LeuProSer·
  1 ACCATGGGTA AATTATTACT GATATTAGGT AGTGCTATTG CACTTCCATC
    ·PheAlaAla AlaGlyGlyAsp LeuAspIle SerAspThr ValGlyValSer·
 51 ATTTGCTGCT GCTGGTGGCG ATCTAGATAT AAGTGATACT GTTGGTGTTT
    · PheTrpLeu ValThrAla GlyMetLeuAla AlaThrVal PhePhePhe
101 CATTCTGGCT GGTTACAGCT GGTATGTTAG CGGCAACTGT ATTCTTTTTT
    ValGluArgAsp GlnValSer AlaLysTrp LysThrSerLeu ThrValSer·
151 GTAGAAAGAG ACCAAGTCAG CGCTAAGTGG AAAACTTCAC TTACTGTATC
    ·GlyLeuIle ThrGlyIleAla PheTrpHis TyrLeuTyr MetArgGlyVal·
201 TGGTTTAATT ACTGGTATAG CTTTTTGGCA TTATCTCTAC ATGAGAGGTG
    · TrpIleAsp ThrGlyAsp ThrProThrVal PheArgTyr IleAspTrp
251 TTTGGATAGA TACTGGTGAT ACACCAACAG TATTTAGATA TATTGATTGG
    LeuLeuThrVal ProLeuGln MetValGlu PheTyrLeuIle LeuAlaAla·
301 CTATTAACTG TTCCATTACA AATGGTTGAG TTCTATCTAA TTCTTGCTGC
    ·CysThrSer ValAlaAlaSer LeuPheLys LysLeuLeu AlaGlySerLeu·
351 TTGTACAAGT GTTGCTGCTT CATTATTTAA GAAGCTTCTA GCTGGTTCAT
    · ValMetLeu GlyAlaGly PheAlaGlyGlu AlaGlyLeu AlaProVal
401 TAGTAATGTT AGGTGCTGGA TTTGCAGGCG AAGCTGGTTT AGCTCCTGTA
    LeuProAlaPhe IleLeuGly MetAlaGly TrpLeuTyrMet IleTyrGlu·
451 TTACCTGCTT TCATTCTTGG TATGGCTGGT TGGTTATACA TGATTTATGA
    ·LeuHisMet GlyGluGlyLys AlaAlaVal SerThrAla SerProAlaVal·
501 GCTACATATG GGTGAAGGTA AGGCTGCTGT AAGTACTGCA AGTCCTGCTG
    · AsnSerAla TyrAsnAla MetMetLysIle IleValIle GlyTrpAla
551 TTAACTCTGC TTACAATGCA ATGATGAAGA TTATTGTTAT TGGATGGGCA
    IleTyrProAla GlyTyrAla AlaGlyTyr LeuMetSerGly AspGlyVal·
601 ATTTATCCTG CTGGATATGC TGCTGGTTAC CTAATGAGTG GTGACGGTGT
    ·TyrAlaSer AsnLeuAsnLeu IleTyrAsn LeuAlaAsp PheValAsnLys·
651 ATACGCTTCA AACTTAAACC TTATATATAA CCTTGCTGAC TTTGTTAACA
    · IleLeuPhe GlyLeuIle IleTrpAsnVal AlaValLys GluSerSer
701 AGATTCTATT TGGTTTGATC ATTTGGAATG TTGCTGTTAA AGAATCTTCT
    AsnAla
751 AATGCT
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Figure 1-21

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    ThrMetGlyLys LeuLeuLeu IleLeuGly SerAlaIleAla LeuProSer·
  1 ACCATGGGTA AATTATTACT GATATTAGGT AGTGCTATTG CACTTCCATC
    ·PheAlaAla AlaGlyGlyAsp LeuAspIle SerAspThr ValGlyValSer·
 51 ATTTGCTGCT GCTGGTGGCG ATCTAGATAT AAGTGATACT GTTGGTGTTT
    · PheTrpLeu ValThrAla GlyMetLeuAla AlaThrVal PhePhePhe
101 CATTCTGGCT GGTTACAGCT GGTATGTTAG CGGCAACTGT GTTCTTTTTT
    ValGluArgAsp GlnValSer AlaGluTrp LysThrSerLeu ThrValSer·
151 GTAGAAAGAG ACCAAGTCAG CGCTGAGTGG AAAACTTCAC TTACTGTATC
    ·GlyLeuIle ThrGlyIleAla PheTrpHis TyrLeuTyr MetArgGlyVal·
201 TGGTTTAATT ACTGGTATAG CTTTTTGGCA TTATCTCTAT ATGAGAGGTG
    · TrpIleAsp ThrGlyAsp ThrProThrVal PheArgTyr IleAspTrp
251 TTTGGATAGA TACTGGTGAT ACCCCAACAG TATTCAGATA TATTGATTGG
    LeuLeuThrVal ProLeuGln MetValGlu PheTyrLeuIle LeuAlaAla·
301 TTATTAACTG TTCCATTACA AATGGTTGAG TTCTATCTAA TTCTTGCTGC
    ·CysThrSer ValAlaAlaSer LeuPheLys LysLeuLeu AlaGlySerLeu·
351 TTGTACAAGT GTTGCTGCTT CATTATTTAA GAAGCTTCTA GCTGGTTCAT
    · ValMetLeu GlyAlaGly PheAlaGlyGlu AlaGlyLeu AlaProVal
401 TAGTAATGTT AGGTGCTGGA TTTGCAGGCG AAGCTGGATT AGCTCCTGTA
    LeuProAlaPhe IleIleGly MetAlaGly TrpLeuTyrMet IleTyrGlu·
451 TTACCTGCTT TCATTATTGG TATGGCTGGA TGGTTATACA TGATTTATGA
    ·LeuTyrMet GlyGluGlyLys AlaAlaVal SerThrAla SerProAlaVal·
501 GCTATATATG GGTGAAGGTA AGGCTGCTGT AAGTACTGCA AGTCCTGCTG
    · AsnSerAla TyrAsnAla MetMetMetIle IleValVal GlyTrpAla
551 TTAACTCTGC ATACAACGCA ATGATGATGA TTATTGTTGT TGGATGGGCA
    IleTyrProAla GlyTyrAla AlaGlyTyr LeuMetGlyGly GluGlyVal·
601 ATTTATCCTG CTGGATATGC TGCTGGTTAC CTAATGGGTG GCGAAGGTGT
    ·TyrAlaSer AsnLeuAsnLeu IleTyrAsn LeuAlaAsp PheValAsnLys·
651 ATACGCTTCA AACTTAAACC TTATATATAA CCTTGCTGAC TTTGTTAACA
    · IleLeuPhe GlyLeuIle IleTrpAsnVal AlaValLys GluSerSer
701 AGATTCTATT TGGTTTGATC ATTTGGAATG TTGCTGTTAA AGAATCTTCT
    AsnAla
751 AATGCT
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Figure 1-22

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    ThrMetGlyLys LeuLeuLeu IleLeuGly SerAlaIleAla LeuProSer·
  1 ACCATGGGTA AATTATTACT GATATTAGGT AGTGCTATTG CACTTCCATC
    ·PheAlaAla AlaGlyGlyAsp LeuAspIle SerAspThr ValGlyValSer·
 51 ATTTGCTGCT GCTGGTGGCG ATCTAGATAT AAGTGATACT GTTGGTGTTT
    · PheTrpLeu ValThrAla GlyMetLeuAla AlaThrVal PhePhePhe
101 CATTCTGGCT GGTTACAGCT GGTATGTTAG CGGCAACTGT GTTCTTTTTT
    ValGluArgAsp GlnValSer AlaLysTrp LysThrSerLeu ThrValSer·
151 GTAGAAAGAG ACCAAGTCAG CGCTAAGTGG AAAACTTCAC TTACTGTATC
    ·GlyLeuIle ThrGlyIleAla PheTrpHis TyrLeuTyr MetArgGlyVal·
201 TGGTTTAATT ACTGGTATAG CCTTTTGGCA TTATCTCTAT ATGAGAGGTG
    · TrpIleAsp ThrGlyAsp ThrProThrVal PheArgTyr IleAspTrp
251 TTTGGATAGA CACTGGTGAT ACCCCAACAG TATTCAGATA TATTGATTGG
    LeuLeuThrVal ProLeuGln MetValGlu PheTyrLeuIle LeuAlaAla·
301 TTATTAACTG TTCCATTACA AATGGTTGAG TTCTATCTAA TTCTTGCTGC
    ·CysThrAsn ValAlaAlaSer LeuPheLys LysLeuLeu AlaGlySerLeu·
351 TTGTACAAAT GTTGCTGCTT CATTATTTAA GAAGCTTCTA GCTGGTTCAT
    · ValMetLeu GlyAlaGly PheAlaGlyGlu AlaGlyLeu AlaProVal
401 TAGTAATGTT AGGTGCTGGA TTTGCAGGCG AAGCTGGATT AGCTCCTGTA
    TrpProAlaPhe IleIleGly MetAlaGly TrpLeuTyrMet IleTyrGlu·
451 TGGCCTGCTT TCATTATTGG TATGGCTGGA TGGTTATACA TGATTTATGA
    ·LeuTyrMet GlyGluGlyLys AlaAlaVal SerThrAla SerProAlaVal·
501 GCTATATATG GGTGAAGGTA AGGCTGCTGT AAGTACTGCA AGTCCTGCTG
    · AsnSerAla TyrAsnAla MetMetMetIle IleValVal GlyTrpAla
551 TTAACTCTGC ATACAACGCA ATGATGATGA TTATTGTTGT TGGATGGGCA
    IleTyrProAla GlyTyrAla AlaGlyTyr LeuMetGlyGly GluGlyVal·
601 ATTTATCCTG CTGGATATGC TGCTGGTTAC CTAATGGGTG GCGAAGGTGT
    ·TyrAlaSer AsnLeuAsnLeu IleTyrAsn LeuAlaAsp PheValAsnLys·
651 ATACGCTTCA AACCTAAACC TTATATATAA CCTTGCTGAC TTTGTTAACA
    · IleLeuPhe GlyLeuIle IleTrpAsnVal AlaValLys GluSerSer
701 AGATTCTATT TGGTTTGATC ATTTGGAATG TTGCTGTTAA AGAATCTTCT
    AsnAla
751 AATGCT
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Figure 1-23

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    ThrMetGlyLys LeuLeuLeu IleLeuGly SerAlaIleAla LeuProSer·
  1 ACCATGGGTA AATTATTACT GATATTAGGT AGTGCTATTG CGCTTCCATC
    ·PheAlaAla AlaGlyGlyAsp LeuAspIle SerAspThr ValGlyValSer·
 51 ATTTGCTGCT GCTGGTGGCG ATCTAGATAT AAGTGATACT GTTGGTGTTT
    · PheTrpLeu ValThrAla GlyMetLeuAla AlaThrVal PhePhePhe
101 CATTCTGGCT GGTTACGGCT GGTATGTTAG CGGCAACTGT ATTCTTTTTT
    ValGluArgAsp GlnValSer AlaLysTrp LysThrSerLeu ThrValSer·
151 GTAGAAAGAG ACCAAGTCAG CGCTAAGTGG AAAACTTCAC TTACTGTATC
    ·GlyLeuIle ThrGlyIleAla PheTrpHis TyrLeuTyr MetArgGlyVal·
201 TGGTTTAATT ACTGGTATAG CTTTTTGGCA TTATCTCTAC ATGAGAGGTG
    · TrpIleAsp ThrGlyAsp ThrProThrVal PheArgTyr IleAspTrp
251 TTTGGATAGA TACTGGTGAT ACACCAACAG TATTTAGATA TATTGATTGG
    LeuLeuThrVal ProLeuGln MetValGlu PheTyrLeuIle LeuAlaAla·
301 TTATTAACTG TTCCATTACA AATGGTTGAG TTCTATCTAA TTCTTGCCGC
    ·CysThrSer ValAlaAlaSer LeuPheLys LysLeuLeu AlaGlySerLeu·
351 TTGTACAAGT GTTGCTGCTT CATTATTTAA GAAGCTTCTA GCTGGTTCAT
    · ValMetLeu GlyAlaGly SerAlaGlyGlu AlaGlyLeu AlaProVal
401 TGGTAATGTT AGGTGCTGGA TCTGCAGGCG AAGCTGGATT AGCTCCTGTA
    LeuProAlaPhe IleIleGly MetAlaGly TrpLeuTyrMet IleTyrGlu·
451 TTACCTGCTT TCATTATTGG TATGGCTGGA TGGTTATACA TGATTTATGA
    ·LeuTyrMet GlyGluGlyLys AlaAlaVal SerThrAla SerProAlaVal·
501 GCTATATATG GGTGAAGGTA AGGCTGCTGT AAGTACTGCA AGTCCTGCTG
    · AsnSerAla TyrAsnAla MetMetMetIle IleValVal GlyTrpAla
551 TTAACTCTGC ATACAACGCA ATGATGATGA TTATTGTTGT TGGATGGGCA
    IleTyrProAla GlyTyrAla AlaGlyTyr LeuMetGlyGly GluGlyVal·
601 ATTTATCCTG CTGGATATGC TGCTGGTTAC CTAATGGGTG GCGAAGGTGT
    ·TyrAlaSer AsnLeuAsnLeu IleTyrAsn LeuAlaAsp PheValAsnLys·
651 ATACGCTTCA AACTTAAACC TCATATATAA CCTTGCTGAC TTTGTTAACA
    · IleLeuPhe GlyLeuIle IleTrpAsnVal AlaValLys GluSerSer
701 AGATTCTATT TGGTTTGATC ATTTGGAATG TTGCTGTTAA AGAATCTTCT
    AsnAla
751 AATGCT
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Figure 1-24

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    ThrMetGlyLys LeuLeuLeu IleLeuGly SerAlaIleAla LeuProSer·
  1 ACCATGGGTA AATTATTACT GATATTAGGT AGTGCTATTG CACTTCCATC
    ·PheAlaAla AlaGlyGlyAsp LeuAspIle SerAspThr ValGlyValSer·
 51 ATTTGCTGCT GCTGGTGGCG ATCTAGATAT AAGTGATACT GTTGGTGTTT
    · PheTrpLeu ValThrAla GlyMetLeuAla AlaThrVal PhePhePhe
101 CATTCTGGCT GGTTACAGCT GGTATGTTAG CGGCAACTGT GTTCTTTTTT
    ValGluArgAsp GlnValSer AlaLysTrp LysThrSerLeu ThrValSer·
151 GTAGAAAGAG ACCAAGTCAG CGCTAAGTGG AAAACTTCAC TTACTGTATC
    ·GlyLeuIle ThrGlyIleAla PheTrpHis TyrLeuTyr MetArgGlyVal·
201 TGGTTTAATT ACTGGTATAG CTTTTTGGCA TTATCTCTAT ATGAGAGGTG
    · TrpIleAsp ThrGlyAsp ThrProThrVal PheArgTyr IleAspTrp
251 TTTGGATAGA CACTGGTGAT ACCCCAACAG TATTCAGATA TATTGATTGG
    LeuLeuThrVal ProLeuGln MetValGlu PheTyrLeuIle LeuAlaAla·
301 TTATTAACTG TTCCATTACA AATGGTTGAG TTCTATCTAA TTCTTGCTGC
    ·CysThrAsn ValAlaAlaSer LeuPheLys LysLeuLeu AlaGlySerLeu·
351 TTGTACAAAT GTTGCTGCTT CATTATTTAA GAAGCTTCTA GCTGGTTCAT
    · ValMetLeu GlyAlaGly PheAlaGlyGlu AlaGlyLeu AlaProVal
401 TAGTAATGTT AGGTGCTGGA TTTGCAGGCG AAGCTGGATT AGCTCCTGTA
    TrpProAlaPhe IleIleGly MetAlaGly TrpLeuTyrMet IleTyrGlu·
451 TGGCCTGCTT TCATTATTGG TATGGCTGGA TGGTTATACA TGATTTATGA
    ·LeuTyrMet GlyGluGlyLys AlaAlaVal SerThrAla SerProAlaVal·
501 GCTATATATG GGTGAAGGTA AGGCTGCTGT AAGTACTGCA AGTCCTGCTG
    · AsnSerAla TyrAsnAla MetMetValIle IleValVal GlyTrpAla
551 TTAACTCTGC ATACAACGCA ATGATGGTGA TTATTGTTGT TGGATGGGCA
    IleTyrProAla GlyTyrAla AlaGlyTyr LeuMetGlyGly GluGlyVal·
601 ATTTATCCTG CTGGATATGC TGCTGGTTAC CTAATGGGTG GCGAAGGTGT
    ·TyrAlaSer AsnLeuAsnLeu IleTyrAsn LeuAlaAsp PheValAsnLys·
651 ATACGCTTCA AACCTAAACC TTATATATAA CCTTGCTGAC TTTGTTAACA
    · IleLeuPhe GlyLeuIle IleTrpAsnVal AlaValLys GluSerSer
701 AGATTCTATT TGGTTTGATC ATTTGGAATG TTGCTGTTAA AGAATCTTCT
    AsnAla
751 AATGCT
```

Figure 1-25

```
    ThrMetGlyLys LeuLeuLeu IleLeuGly SerAlaIleAla LeuProSer·
  1 ACCATGGGTA AATTATTACT GATATTAGGT AGTGCTATTG CACTTCCATC
    ·PheAlaAla AlaGlyGlyAsp LeuAspIle SerAspThr ValGlyValSer·
 51 ATTTGCTGCT GCTGGTGGCG ATCTAGATAT AAGTGATACT GTTGGTGTTT
    · PheTrpLeu ValThrAla GlyMetLeuAla AlaThrVal PhePhePhe
101 CATTCTGGCT GGTTACAGCT GGTATGTTAG CGGCAACTGT GTTCTTTTTT
    ValGluArgAsp GlnValSer AlaLysTrp LysThrSerLeu ThrValSer·
151 GTAGAAAGAG ACCAAGTCAG CGCTAAGTGG AAAACTTCAC TTACTGTATC
    ·GlyLeuIle ThrGlyIleAla PheTrpHis TyrLeuTyr MetArgGlyVal·
201 TGGTTTAATT ACTGGTATAG CTTTTTGGCA TTATCTCTAT ATGAGAGGTG
    · TrpIleAsp ThrGlyAsp ThrProThrVal PheArgTyr IleAspTrp
251 TTTGGATAGA CACTGGTGAT ACCCCAACAG TATTCAGATA TATTGATTGG
    LeuLeuThrVal ProLeuGln MetValGlu PheTyrLeuIle LeuAlaAla·
301 TTATTAACTG TTCCATTACA AATGGTTGAG TTCTATCTAA TTCTTGCTGC
    ·CysThrSer ValAlaAlaSer LeuPheLys LysLeuLeu AlaGlySerLeu·
351 TTGTACAAGT GTTGCTGCTT CATTATTTAA GAAGCTTCTA GCTGGTTCAT
    · ValMetLeu GlyAlaGly PheAlaGlyGlu AlaGlyLeu AlaProVal
401 TAGTAATGTT AGGTGCTGGA TTTGCAGGCG AAGCTGGATT AGCTCCTGTA
    LeuProAlaPhe IleIleGly MetAlaGly TrpLeuTyrMet IleTyrGlu·
451 TTACCTGCTT TCATTATTGG TATGGCTGGA TGGTTATACA TGATTTATGA
    ·LeuTyrMet GlyGluGlyLys AlaAlaVal SerThrAla SerProAlaVal·
501 GCTATATATG GGTGAAGGTA AGGCTGCTGT AAGTACTGCA AGTCCTGCTG
    · AsnSerAla TyrAsnAla MetMetMetIle IleValVal GlyTrpAla
551 TTAACTCTGC ATACAACGCA ATGATGATGA TTATTGTTGT TGGATGGGCA
    IleTyrProAla GlyTyrAla AlaGlyTyr LeuMetGlyGly GluGlyVal·
601 ATTTATCCTG CTGGATATGC TGCTGGTTAC CTAATGGGTG GCGAAGGTGT
    ·TyrAlaSer AsnLeuAsnLeu IleTyrAsn LeuAlaAsp LeuValAsnLys·
651 ATACGCTTCA AACTTAAACC TTATATATAA CCTTGCTGAC CTTGTTAACA
    · IleLeuPhe GlyLeuIle IleTrpAsnVal AlaValLys GluSerSer
701 AGATTCTATT TGGTTTGATC ATTTGGAATG TTGCTGTTAA AGAATCTTCT
    AsnAla
751 AATGCT
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Figure 1-26

```
    ThrMetGlyLys LeuLeuLeu IleLeuGly SerAlaIleAla LeuProSer·
  1 ACCATGGGTA AATTATTACT GATATTAGGT AGTGCTATTG CACTTCCATC
    ·PheAlaAla AlaGlyGlyAsp LeuAspIle SerAspThr ValGlyValSer·
 51 ATTTGCTGCT GCTGGTGGCG ATCTAGATAT AAGTGATACT GTTGGTGTTT
    · PheTrpLeu ValThrAla GlyMetLeuAla AlaThrVal PhePhePhe
101 CATTCTGGCT GGTTACAGCT GGTATGTTAG CGGCAACTGT GTTCTTTTTT
    ValGluArgAsp GlnValSer AlaLysTrp LysThrSerLeu ThrValSer·
151 GTAGAAAGAG ACCAAGTCAG CGCTAAGTGG AAAACTTCAC TTACTGTATC
    ·GlyLeuIle ThrGlyIleAla PheTrpHis TyrLeuTyr MetArgGlyVal·
201 TGGTTTAATT ACTGGTATAG CTTTTTGGCA TTATCTCTAT ATGAGAGGTG
    · TrpIleAsp ThrGlyAsp ThrProThrVal PheArgTyr IleAspTrp
251 TTTGGATAGA CACTGGTGAT ACCCCAACAG TATTCAGATA TATTGATTGG
    LeuLeuThrVal ProLeuGln ValValGlu PheTyrLeuIle LeuAlaAla·
301 TTATTAACTG TTCCATTACA AGTGGTTGAG TTCTATCTAA TTCTTGCTGC
    ·CysThrSer ValAlaAlaSer LeuPheLys LysLeuLeu AlaGlySerLeu·
351 TTGTACAAGT GTTGCTGCTT CATTATTTAA GAAGCTTCTA GCTGGTTCAT
    · ValMetLeu GlyAlaGly PheAlaGlyGlu AlaGlyLeu AlaProVal
401 TAGTAATGTT AGGTGCTGGA TTTGCAGGCG AAGCTGGATT AGCTCCTGTA
    LeuProAlaPhe IleIleGly MetAlaGly TrpLeuTyrMet IleTyrGlu·
451 TTACCTGCTT TCATTATTGG TATGGCTGGA TGGTTATACA TGATTTATGA
    ·LeuTyrMet GlyGluGlyLys AlaAlaVal SerThrAla SerProAlaVal·
501 GCTATATATG GGTGAAGGCA AGGCTGCTGT AAGTACTGCA AGTCCTGCTG
    · AsnProAla TyrAsnAla MetMetMetIle IleValVal GlyTrpAla
551 TTAACCCTGC ATACAACGCA ATGATGATGA TTATTGTTGT TGGATGGGCA
    IleTyrProAla GlyTyrAla AlaGlyTyr LeuMetGlyGly GluGlyVal·
601 ATTTATCCTG CTGGATATGC TGCTGGTTAC CTAATGGGTG GCGAAGGTGT
    ·TyrAlaSer AsnLeuAsnLeu IleTyrAsn LeuAlaAsp PheValAsnLys·
651 ATACGCTTCA AACTTAAACC TTATATATAA CCTTGCTGAC TTTGTTAACA
    · IleLeuPhe GlyLeuIle IleTrpAsnVal AlaValLys GluSerSer
701 AGATTCTATT TGGTTTGATC ATTTGGAATG TTGCTGTTAA AGAATCTTCT
    AsnAla
751 AATGCT
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Figure 1-27

```
    ThrMetGlyLys LeuLeuLeu IleLeuGly SerAlaIleAla LeuProSer·
  1 ACCATGGGTA AATTATTACT GATATTAGGT AGTGCTATTG CACTTCCATC
    ·PheAlaAla AlaGlyGlyAsp LeuAspIle SerAspThr ValGlyValSer·
 51 ATTTGCTGCT GCTGGTGGCG ATCTAGATAT AAGTGATACT GTTGGTGTTT
    · PheTrpLeu ValThrAla GlyMetLeuAla AlaThrVal PhePhePhe
101 CATTCTGGCT GGTTACAGCT GGTATGTTAG CGGCAACTGT ATTCTTTTTT
    ValGluArgAsp GlnValSer AlaLysTrp LysThrSerLeu ThrValSer·
151 GTAGAAAGAG ACCAAGTCAG CGCTAAGTGG AAAACTTCAC TTACTGTATC
    ·GlyLeuIle ThrGlyIleAla PheTrpHis TyrLeuTyr MetArgGlyVal·
201 TGGTTTAATT ACTGGTATAG CTTTTTGGCA TTATCTCTAC ATGAGAGGTG
    · TrpIleAsp ThrGlyAsp ThrProThrVal PheArgTyr IleAspTrp
251 TTTGGATAGA TACTGGTGAT ACACCAACAG TATTTAGATA TATTGATTGG
    LeuLeuThrVal ProLeuGln MetValGlu PheTyrLeuIle LeuAlaAla·
301 TTATTAACTG TTCCATTACA AATGGTTGAG TTCTATCTAA TTCTTGCTGC
    ·CysThrSer ValAlaAlaSer LeuPheLys LysLeuLeu AlaGlySerLeu·
351 TTGTACAAGT GTTGCTGCTT CATTATTTAA GAAGCTTCTA GCTGGTTCAT
    · ValMetLeu GlyAlaGly PheAlaGlyGlu AlaGlyLeu AlaProVal
401 TAGTAATGTT AGGTGCTGGA TTTGCAGGCG AAGCTGGTTT AGCTCCTGTA
    LeuProAlaPhe IleIleGly MetAlaGly TrpLeuTyrMet IleTyrGlu·
451 TTACCTGCTT TCATTATTGG TATGGCTGGA TGGTTATACA TGATTTATGA
    ·LeuHisMet GlyGluGlyLys AlaAlaVal SerThrAla SerProAlaVal·
501 GCTACATATG GGTGAAGGTA AGGCTGCTGT AAGTACTGCA AGTCCTGCTG
    · AsnSerAla TyrAsnAla MetMetLysIle IleValIle GlyTrpAla
551 TTAACTCTGC ATACAACGCA ATGATGAAGA TTATTGTTAT TGGATGGGCA
    IleTyrProAla GlyTyrAla AlaGlyTyr LeuMetSerGly AspGlyVal·
601 ATTTATCCTG CTGGATATGC TGCTGGTTAC CTAATGAGTG GTGACGGTGT
    ·TyrAlaSer AsnLeuAsnLeu IleTyrAsn LeuAlaAsp PheValAsnLys·
651 ATACGCTTCA AACTTAAACC TTATATATAA CCTTGCTGAC TTTGTTAACA
    · IleLeuPhe GlyLeuIle IleTrpAsnVal AlaValLys GluSerSer
701 AGATTCTATT TGGTTTGATC ATTTGGAATG TTGCTGTTAA AGAATCTTCT
    AsnAla
751 AATGCT
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Figure 1-28

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    ThrMetGlyLys LeuLeuLeu IleLeuGly SerAlaIleAla LeuProSer·
  1 ACCATGGGTA AATTATTACT GATATTAGGT AGTGCTATTG CACTTCCATC
    ·PheAlaAla AlaGlyGlyAsp LeuAspIle SerAspThr ValGlyValSer·
 51 ATTTGCTGCT GCTGGTGGCG ATCTAGATAT AAGTGATACT GTTGGTGTTT
    · PheTrpLeu ValThrAla GlyMetLeuAla AlaThrVal PhePhePhe
101 CATTCTGGCT GGTTACAGCT GGTATGTTAG CGGCAACTGT GTTCTTTTTT
    ValGluArgAsp GlnValSer AlaLysTrp LysThrSerLeu ThrValSer·
151 GTAGAAAGAG ACCAAGTCAG CGCTAAGTGG AAAACTTCAC TTACTGTATC
    ·GlyLeuIle ThrGlyIleAla PheTrpHis TyrLeuTyr MetArgGlyVal·
201 TGGTTTAATT ACTGGTATAG CTTTTTGGCA TTATCTCTAT ATGAGAGGTG
    · TrpIleAsp ThrGlyAsp ThrProThrVal PheArgTyr IleAspTrp
251 TTTGGATAGA TACTGGTGAT ACCCCAACAG TATTCAGATA TATTGATTGG
    LeuLeuThrVal ProLeuGln MetValGlu PheTyrLeuIle LeuAlaAla·
301 TTATTAACTG TTCCATTACA AATGGTTGAG TTCTATCTAA TTCTTGCTGC
    ·CysThrSer ValAlaAlaSer LeuPheLys LysLeuLeu AlaGlySerLeu·
351 TTGTACAAGT GTTGCTGCTT CATTATTTAA GAAGCTTCTA GCTGGTTCAT
    · ValMetLeu GlyAlaGly PheAlaGlyGlu AlaGlyLeu AlaProVal
401 TAGTAATGTT AGGTGCTGGA TTTGCAGGCG AAGCTGGATT AGCTCCTGTA
    LeuProAlaPhe IleIleGly MetAlaGly TrpLeuTyrMet IleTyrGlu·
451 TTACCTGCTT TCATTATTGG TATGGCTGGA TGGCTATACA TGATTTATGA
    ·LeuTyrMet GlyGluGlyLys AlaAlaVal SerThrAla SerProAlaVal·
501 GCTATATATG GGTGAAGGTA AGGCTGCTGT AAGTACTGCA AGTCCTGCTG
    · AsnSerAla TyrAsnAla MetMetMetIle IleValVal GlyTrpAla
551 TTAACTCTGC ATACAACGCA ATGATGATGA TTATTGTTGT TGGATGGGCA
    IleTyrProAla GlyTyrAla AlaGlyTyr LeuMetGlyGly GluGlyVal·
601 ATTTATCCTG CTGGATATGC TGCTGGTTAC CTAATGGGTG GCGAAGGCGT
    ·TyrAlaSer AsnLeuAsnLeu IleTyrAsn LeuAlaAsp PheValAsnLys·
651 ATACGCTTCA AACTTAAACC TTATATATAA CCTTGCTGAC TTTGTTAACA
    · IleLeuPhe GlyLeuIle IleTrpAsnVal AlaValLys GluSerSer
701 AGATTCTATT TGGTTTGATC ATTTGGAATG TTGCTGTTAA AGAATCTTCT
    AsnAla
751 AATGCT
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Figure 1-29

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    MetGlyLysLeu LeuLeuIle LeuGlySer ValIleAlaLeu ProThrPhe·
  1 ATGGGTAAAT TATTACTGAT ATTAGGTAGT GTTATCGCGC TTCCAACATT
    ·AlaAlaGly GlyGlyAspLeu AspAlaSer AspTyrThr GlyValSerPhe·
 51 TGCTGCTGGC GGTGGCGATC TTGATGCTAG TGACTACACT GGTGTTTCAT
    · TrpLeuVal ThrAlaAla LeuLeuAlaSer ThrValPhe PhePheVal
101 TCTGGTTAGT TACTGCTGCT CTATTAGCGT CTACTGTATT CTTCTTTGTT
    GluArgAspArg ValSerAla LysTrpLys ThrSerLeuThr ValSerGly·
151 GAAAGAGATA GAGTGTCTGC AAAATGGAAA ACTTCATTAA CAGTATCTGG
    ·LeuValThr GlyIleAlaPhe TrpHisTyr MetTyrMet ArgGlyValTrp·
201 TTTAGTTACT GGTATTGCTT TTTGGCATTA TATGTACATG AGAGGTGTAT
    · IleGluThr GlyAspSer ProThrValPhe ArgTyrIle AspTrpLeu
251 GGATAGAAAC TGGTGATTCG CCTACTGTCT TTAGATACAT CGACTGGTTA
    LeuThrValPro LeuLeuIle CysGluPhe TyrLeuIleLeu AlaAlaAla·
301 TTAACTGTGC CTTTACTAAT ATGTGAGTTC TATCTGATAC TTGCTGCAGC
    ·ThrAsnVal AlaGlySerLeu PheLysLys LeuLeuVal GlySerLeuVal·
351 TACTAATGTT GCTGGTTCAT TATTTAAGAA ATTGCTAGTT GGTTCTCTTG
    · MetLeuVal PheGlyTyr MetGlyGluAla GlyIleMet AlaAlaTrp
401 TGATGCTTGT GTTTGGTTAC ATGGGTGAAG CAGGAATAAT GGCAGCTTGG
    ProAlaPheIle IleGlyCys LeuAlaTrp ValTyrMetIle TyrGluLeu·
451 CCTGCATTCA TCATTGGATG TTTAGCATGG GTATATATGA TTTATGAACT
    ·TrpAlaGly GluGlyLysSer AlaCysAsn ThrAlaSer ProAlaValGln·
501 ATGGGCTGGT GAAGGAAAAT CTGCATGCAA TACTGCAAGT CCTGCTGTAC
    · SerAlaTyr AsnThrMet MetTyrIleIle IleValGly TrpAlaIle
551 AGTCAGCTTA CAACACAATG ATGTATATCA TCATCGTTGG TTGGGCAATT
    TyrProValGly TyrPheThr GlyTyrLeu MetGlyAspGly GlySerAla·
601 TATCCTGTAG GTTATTTCAC AGGTTACCTA ATGGGTGACG GTGGATCAGC
    ·LeuAsnLeu AsnLeuIleTyr AsnLeuAla AspPheVal AsnLysIleLeu·
651 TCTTAATCTA AACCTTATTT ATAACCTTGC TGACTTTGTT AACAAGATTC
    · PheGlyLeu IleIleTrp AsnValAlaVal LysLysSer SerAsnAla
701 TATTTGGTTT AATTATATGG AATGTTGCTG TTAAAAAATC TTCTAATGCT
751 A
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Figure 1-30

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     MetGlyLysLeu LeuLeuIle LeuGlyAsn ValIleAlaLeu ProThrPhe·
   1 ATGGGTAAAT TATTACTGAT ATTAGGTAAT GTTATCGCGC TTCCAACATT
     ·AlaAlaGly GlyGlyAspLeu AspAlaSer AspTyrThr GlyValSerPhe·
  51 TGCTGCTGGC GGTGGCGATC TTGATGCTAG TGACTACACT GGTGTTTCAT
     · TrpLeuVal ThrAlaAla LeuLeuAlaSer ThrValPhe PhePheVal
 101 TCTGGTTAGT TACTGCTGCT CTATTAGCGT CTACTGTATT CTTCTTTGTT
     GluArgAspArg ValSerAla LysTrpLys ThrSerLeuThr ValSerGly·
 151 GAAAGAGATA GAGTGTCTGC AAAATGGAAA ACTTCATTAA CAGTATCTGG
     ·LeuValThr GlyIleAlaPhe TrpHisTyr MetTyrMet ArgGlyValTrp·
 201 TTTAGTTACT GGTATTGCTT TTTGGCATTA TATGTACATG AGAGGTGTAT
     · IleGluThr GlyAspSer ProThrValPhe ArgTyrIle AspTrpLeu
 251 GGATAGAAAC TGGTGATTCG CCTACTGTCT TTAGATACAT CGACTGGTTA
     LeuThrValPro LeuLeuIle CysGluPhe TyrLeuIleLeu AlaAlaAla·
 301 TTAACTGTGC CTTTACTAAT ATGTGAGTTC TATCTGATAC TTGCTGCAGC
     ·ThrAsnVal AlaGlySerLeu PheLysLys LeuLeuVal GlySerLeuVal·
 351 TACTAATGTT GCTGGTTCAT TATTTAAGAA ATTGCTAGTT GGTTCTCTTG
     · MetLeuVal PheGlyTyr MetGlyGluAla GlyIleMet AlaAlaTrp
 401 TGATGCTTGT GTTCGGTTAC ATGGGTGAAG CAGGAATAAT GGCAGCTTGG
     ProAlaPheIle IleGlyCys LeuAlaTrp ValTyrMetIle TyrGluLeu·
 451 CCTGCATTCA TCATTGGGTG TTTAGCATGG GTATATATGA TTTATGAGCT
     ·TrpAlaGly GluGlyLysSer AlaCysAsn ThrAlaSer ProAlaValGln·
 501 ATGGGCTGGT GAAGGAAAAT CTGCATGTAA TACTGCAAGT CCTGCTGTAC
     · SerAlaTyr AsnThrMet MetTyrIleIle IleValGly TrpAlaIle
 551 AGTCAGCTTA CAACACTATG ATGTATATTA TCATTGTTGG TTGGGCGATT
     TyrProValGly TyrPheThr GlyTyrLeu MetGlyAspGly GlySerAla·
 601 TATCCTGTAG GCTATTTCAC TGGTTACCTC ATGGGTGACG GTGGATCAGC
     ·LeuAsnLeu AsnLeuIleTyr AsnLeuAla AspPheVal AsnLysIleLeu·
 651 TCTTAATTTA AACCTTATTT ATAACCTTGC TGACTTTGTT AACAAGATTC
     · PheGlyLeu IleIleTrp AsnValAlaVal LysGluSer SerAsnAla
 701 TATTTGGTTT AATTATATGG AATGTTGCTG TTAAAGAATC TTCTAATGCT
 751 A
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Figure 1-31

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     MetGlyLysLeu LeuLeuIle LeuGlySer ValIleAlaLeu ProThrPhe·
   1 ATGGGTAAAT TATTACTGAT ATTAGGTAGT GTTATTGCGC TTCCAACATT
     ·AlaAlaGly GlyGlyAspLeu AspAlaSer AspTyrThr GlyValSerPhe·
  51 TGCCGCTGGC GGTGGCGATC TTGATGCTAG TGACTACACT GGTGTTTCTT
     · TrpLeuVal ThrAlaAla LeuLeuAlaSer ThrValPhe PhePheVal
 101 TCTGGTTAGT TACTGCTGCT CTATTAGCAT CTACTGTATT CTTCTTTGTT
     GluArgAspArg ValSerAla LysTrpLys ThrSerLeuThr ValSerGly·
 151 GAAAGGGATA GAGTATCTGC AAAATGGAAA ACTTCATTAA CAGTATCTGG
     ·LeuValThr GlyIleAlaPhe TrpHisTyr MetTyrMet ArgGlyValTrp·
 201 TTTAGTTACT GGTATTGCTT TTTGGCATTA TATGTACATG AGAGGTGTAT
     · IleGluThr GlySerSer ProThrValPhe ArgTyrIle AspTrpLeu
 251 GGATAGAAAC TGGTAGTTCA CCTACTGTCT TTAGATACAT TGACTGGCTA
     LeuThrValPro LeuLeuIle CysGluPhe TyrLeuIleLeu AlaAlaAla·
 301 TTAACAGTGC CTTTACTAAT ATGTGAGTTC TATTTAATAC TTGCCGCAGC
     ·ThrAsnVal AlaGlySerLeu PheLysLys LeuLeuVal GlySerLeuVal·
 351 TACTAATGTT GCTGGTTCAT TATTTAAGAA ATTGCTAGTT GGTTCTCTTG
     · MetLeuVal PheGlyTyr MetGlyGluAla GlyIleMet AlaAlaTrp
 401 TGATGCTTGT GTTTGGTTAC ATGGGTGAAG CAGGAATAAT GGCAGCTTGG
     ProAlaPheIle IleGlyCys LeuAlaTrp ValTyrMetIle TyrGluLeu·
 451 CCTGCATTCA TCATTGGATG TTTAGCATGG GTATATATGA TTTATGAGCT
     ·TrpAlaGly GluGlyLysSer AlaCysAsn ThrAlaSer ProAlaValGln·
 501 ATGGGCTGGT GAAGGAAAAT CTGCATGTAA TACTGCAAGT CCTGCTGTAC
     · SerAlaTyr AsnThrMet MetTyrIleIle IleAlaGly TrpAlaIle
 551 AGTCAGCTTA CAACACAATG ATGTATATCA TCATCGCTGG TTGGGCAATT
     TyrProValGly TyrPheThr GlyTyrLeu MetGlyAspGly GlySerAla·
 601 TATCCTGTAG GTTATTTCAC AGGTTACCTA ATGGGTGACG GTGGATCAGC
     ·LeuAsnLeu AsnLeuIleTyr AsnLeuAla AspPheVal AsnLysIleLeu·
 651 TCTTAATCTA AACCTTATTT ATAACCTTGC TGACTTTGTT AACAAGATTC
     · PheGlyLeu IleIleTrp AsnValAlaVal LysGluSer SerAsnAla
 701 TATTTGGTTT AATTATATGG AATGTTGCTG TTAAAGAATC TTCTAATGCT
 751 A
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Figure 1-32

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    MetGlyLysLeu LeuLeuIle LeuGlySer ValIleAlaLeu ProThrPhe·
  1 ATGGGTAAAT TATTACTGAT ATTAGGTAGT GTTATCGCGC TTCCAACATT
    ·AlaAlaGly GlyGlyAspLeu AspAlaSer AspTyrThr GlyValSerPhe·
 51 TGCTGCTGGC GGTGGCGATC TTGATGCTAG TGACTACACT GGTGTTTCAT
    · TrpLeuVal ThrAlaAla LeuLeuAlaSer ThrValPhe PhePheVal
101 TCTGGTTAGT TACTGCTGCT CTATTAGCGT CTACTGTATT CTTCTTTGTT
    GluArgAspArg ValSerAla LysTrpLys ThrSerLeuThr ValSerGly·
151 GAAAGAGATA GAGTGTCTGC AAAATGGAAA ACTTCATTAA CAGTATCTGG
    ·LeuValThr GlyIleAlaPhe TrpHisTyr MetTyrMet ArgGlyValTrp·
201 TTTAGTTACT GGTATTGCTT TTTGGCATTA TATGTACATG AGAGGTGTAT
    · IleGluThr GlyAspSer ProThrValPhe ArgTyrIle AspTrpLeu
251 GGATAGAAAC TGGTGATTCG CCTACTGTCT TTAGATACAT CGACTGGTTA
    LeuThrValPro LeuLeuIle CysGluPhe TyrLeuIleLeu AlaAlaAla·
301 TTAACTGTGC CTTTACTAAT ATGTGAGTTC TATCTGATAC TTGCTGCAGC
    ·ThrAsnVal AlaGlySerLeu PheLysLys LeuLeuVal GlySerLeuVal·
351 TACTAATGTT GCTGGTTCAT TATTTAAGAA ATTGCTAGTT GGTTCTCTTG
    · MetLeuVal PheGlyTyr MetGlyGluAla GlyIleMet AlaAlaTrp
401 TGATGCTTGT GTTTGGTTAC ATGGGTGAAG CAGGAATAAT GGCAGCTTGG
    ProAlaPheIle IleGlyCys LeuAlaTrp ValTyrMetIle TyrGluLeu·
451 CCTGCATTCA TCATTGGATG TTTAGCATGG GTATATATGA TTTATGAACT
    ·TrpAlaGly GluGlyLysSer AlaCysAsn ThrAlaSer ProAlaValGln·
501 ATGGGCTGGT GAAGGAAAAT CTGCATGCAA TACTGCAAGT CCTGCTGTAC
    · SerAlaTyr AsnThrMet MetTyrIleIle IleValGly TrpAlaIle
551 AGTCAGCTTA CAACACAATG ATGTATATCA TCATCGTTGG TTGGGCAATT
    TyrProValGly TyrPheThr GlyTyrLeu MetGlyAspGly GlySerAla·
601 TATCCTGTAG GTTATTTCAC AGGTTACCTA ATGGGTGACG GTGGATCAGC
    ·LeuAsnLeu AsnLeuIleTyr AsnLeuAla AspPheVal AsnLysIleLeu·
651 TCTTAATCTA AACCTTATTT ATAACCTTGC TGACTTTGTT AACAAGATTC
    · PheGlyLeu IleIleTrp AsnValAlaVal LysGluSer SerAsnAla
701 TATTTGGTTT AATTATATGG AATGTTGCTG TTAAAGAATC TTCTAATGCT
751 A
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Figure 1-33

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    MetGlyLysLeu LeuLeuIle LeuGlySer ValIleAlaLeu ProThrPhe·
  1 ATGGGTAAAT TATTACTGAT ATTAGGTAGT GTTATCGCGC TTCCAACATT
    ·AlaAlaGly GlyGlyAspLeu AspAlaSer AspTyrThr GlyValSerPhe·
 51 TGCTGCTGGC GGTGGCGATC TTGATGCTAG TGACTACACT GGTGTTTCAT
    · TrpLeuVal ThrAlaAla LeuLeuAlaSer ThrValPhe PhePheVal
101 TCTGGTTAGT TACTGCTGCT CTATTAGCGT CTACTGTATT CTTCTTTGTT
    GluArgAspArg ValSerAla LysTrpLys ThrSerLeuThr ValSerGly·
151 GAAAGAGATA GAGTGTCTGC AAAATGGAAA ACTTCATTAA CAGTATCTGG
    ·LeuValThr GlyIleAlaPhe TrpHisTyr MetTyrMet ArgGlyValTrp·
201 TTTAGTTACT GGTATTGCTT TTTGGCATTA TATGTACATG AGAGGTGTAT
    · IleGluThr GlySerSer ProThrValPhe ArgTyrIle AspTrpLeu
251 GGATAGAAAC TGGTAGTTCA CCTACTGTCT TTAGATACAT TGACTGGCTA
    LeuThrValPro LeuLeuIle CysGluPhe TyrLeuIleLeu AlaAlaAla·
301 TTAACAGTGC CTTTACTAAT ATGTGAGTTC TATTTAATAC TTGCCGCAGC
    ·ThrAsnVal AlaGlySerLeu PheLysLys LeuLeuVal GlySerLeuVal·
351 TACTAATGTT GCTGGTTCAT TATTTAAGAA ATTGCTAGTT GGTTCTCTTG
    · MetLeuVal PheGlyTyr MetGlyGluAla GlyIleMet AlaAlaTrp
401 TTATGCTTGT GTTCGGTTAC ATGGGTGAAG CAGGAATAAT GGCAGCTTGG
    ProAlaPheIle IleGlyCys LeuAlaTrp ValTyrMetIle TyrGluLeu·
451 CCTGCATTCA TCATTGGGTG TTTAGCATGG GTATATATGA TTTATGAGCT
    ·TrpAlaGly GluGlyLysSer AlaCysAsn ThrAlaSer ProAlaValGln·
501 ATGGGCTGGT GAAGGAAAAT CTGCATGTAA TACTGCAAGT CCTGCTGTAC
    · SerAlaTyr AsnThrMet MetTyrIleIle IleAlaGly TrpAlaIle
551 AGTCAGCTTA CAACACAATG ATGTATATCA TCATCGCTGG TTGGGCAATT
    TyrProValGly TyrPheThr GlyTyrLeu MetGlyAspGly GlySerAla·
601 TATCCTGTAG GTTATTTCAC AGGTTACCTA ATGGGTGACG GTGGATCAGC
    ·LeuAsnLeu AsnLeuAsnTyr AsnLeuAla AspPheVal AsnLysIleLeu·
651 TCTTAATCTA AACCTTAATT ATAACCTTGC TGACTTTGTT AACAAGATTC
    · PheGlyLeu IleIleTrp AsnValAlaVal LysGluSer SerAsnAla
701 TATTTGGTTT AATTATATGG AATGTTGCTG TTAAAGAATC TTCTAATGCT
751 A
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Figure 1-34

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     MetGlyLysLeu LeuLeuIle LeuGlySer ValIleAlaLeu ProThrPhe·
   1 ATGGGTAAAT TATTACTGAT ATTAGGTAGT GTTATCGCGC TTCCAACATT
     ·AlaAlaGly GlyGlyAspLeu AspAlaSer AspTyrThr GlyValSerPhe·
  51 TGCTGCTGGC GGTGGCGATC TTGATGCTAG TGACTATACT GGTGTTTCAT
     · TrpLeuVal ThrAlaAla LeuLeuAlaSer ThrValPhe PhePheVal
 101 TCTGGTTAGT TACTGCTGCT CTATTAGCGT CTACTGTATT CTTCTTTGTT
     GluArgAspArg ValSerAla LysTrpLys ThrSerLeuThr ValSerGly·
 151 GAAAGAGATA GAGTGTCTGC AAAATGGAAA ACTTCATTAA CAGTATCTGG
     ·LeuValThr GlyIleAlaPhe TrpHisTyr MetTyrMet ArgGlyValTrp·
 201 TTTAGTTACT GGTATTGCTT TTTGGCATTA TATGTACATG AGAGGTGTAT
     · IleGluThr GlyAspSer ProThrValPhe ArgTyrIle AspTrpLeu
 251 GGATAGAAAC TGGTGATTCG CCTACTGTCT TTAGATACAT AGACTGGTTA
     LeuThrValPro LeuLeuIle CysGluPhe TyrLeuIleLeu AlaAlaAla·
 301 TTAACTGTGC CTTTACTAAT ATGTGAGTTC TATCTGATAC TTGCTGCAGC
     ·ThrAsnVal AlaGlySerLeu PheLysLys LeuLeuVal GlySerLeuVal·
 351 TACTAATGTT GCTGGTTCAT TATTTAAGAA ATTGCTAGTT GGTTCTCTTG
     · MetLeuVal PheGlyTyr MetGlyGluAla GlyIleMet AlaAlaTrp
 401 TGATGCTTGT GTTTGGTTAC ATGGGTGAAG CAGGAATAAT GGCAGCTTGG
     ProAlaPheIle IleGlyCys LeuAlaTrp ValTyrMetIle TyrGluLeu·
 451 CCTGCATTCA TCATTGGATG TTTAGCATGG GTATATATGA TTTATGAACT
     ·TrpAlaGly GluGlyLysSer AlaCysAsn ThrAlaSer ProAlaValGln·
 501 ATGGGCTGGT GAAGGAAAAT CTGCATGCAA TACTGCAAGT CCTGCTGTAC
     · SerAlaTyr AsnThrMet MetTyrIleIle IleValGly TrpAlaIle
 551 AATCAGCTTA CAACACAATG ATGTATATCA TCATCGTTGG TTGGGCAATT
     TyrProValGly TyrPheThr GlyTyrLeu MetGlyAspGly GlySerAla·
 601 TATCCTGTAG GTTATTTCAC AGGTTACCTA ATGGGTGACG GTGGATCAGC
     ·LeuAsnLeu AsnLeuIleTyr AsnLeuAla AspPheVal AsnLysIleLeu·
 651 TCTTAATCTA AACCTTATTT ATAACCTTGC TGACTTTGTT AACAAGATTC
     · PheGlyLeu IleIleTrp AsnValAlaVal LysGluSer SerAsnAla
 701 TATTTGGTTT AATTATATGG AATGTTGCTG TTAAAGAATC TTCTAATGCT
 751 A
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Figure 1-35

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     MetGlyLysLeu LeuLeuIle LeuGlySer ValIleAlaLeu ProThrPhe·
   1 ATGGGTAAAT TATTACTGAT ATTAGGTAGT GTTATTGCGC TTCCAACATT
     ·AlaAlaGly GlyGlyAspLeu AspAlaSer AspTyrThr GlyValSerPhe·
  51 TGCCGCTGGC GGTGGCGATC TTGATGCTAG TGACTACACT GGTGTTTCTT
     · TrpLeuVal ThrAlaAla LeuLeuAlaSer ThrValPhe PhePheVal
 101 TCTGGTTAGT TACTGCTGCT CTATTAGCAT CTACTGTATT CTTCTTTGTT
     GluArgAspArg ValSerAla LysTrpLys ThrSerLeuThr ValSerGly·
 151 GAAAGGGATA GAGTATCTGC AAAATGGAAA ACTTCATTAA CAGTATCTGG
     ·LeuValThr GlyIleAlaPhe TrpHisTyr MetTyrMet ArgGlyValTrp·
 201 TTTAGTTACT GGTATTGCTT TTTGGCATTA TATGTACATG AGAGGTGTAT
     · IleGluThr GlySerSer ProThrValPhe ArgTyrIle AspTrpLeu
 251 GGATAGAAAC TGGTAGTTCA CCTACTGTCT TTAGATACAT TGACTGGCTA
     LeuThrValPro LeuLeuIle CysGluPhe TyrLeuIleLeu AlaAlaAla·
 301 TTAACAGTGC CTTTACTAAT ATGTGAGTTC TATTTAATAC TTGCCGCAGC
     ·ThrAsnVal AlaGlySerLeu PheLysLys LeuLeuVal GlySerLeuVal·
 351 TACTAATGTT GCTGGTTCAT TATTTAAGAA ATTGCTAGTT GGTTCTCTTG
     · MetLeuVal PheGlyTyr MetGlyGluAla GlyIleMet AlaAlaTrp
 401 TTATGCTTGT GTTCGGTTAC ATGGGTGAAG CAGGAATAAT GGCAGCTTGG
     ProAlaPheIle IleGlyCys LeuAlaTrp ValTyrMetIle TyrGluLeu·
 451 CCTGCATTCA TCATTGGATG TTTAGCATGG GTATATATGA TTTATGAACT
     ·TrpAlaGly GluGlyLysSer AlaCysAsn ThrAlaSer ProAlaValGln·
 501 ATGGGCTGGT GAAGGAAAAT CTGCATGCAA TACTGCAAGT CCTGCTGTAC
     · SerAlaTyr AsnThrMet MetTyrIleIle IleValGly TrpAlaIle
 551 AGTCAGCTTA CAACACAATG ATGTATATCA TCATCGTTGG TTGGGCAATT
     TyrProValGly TyrPheThr GlyTyrLeu MetGlyAspGly GlySerAla·
 601 TATCCTGTAG GTTATTTCAC AGGTTACCTA ATGGGTGACG GTGGATCAGC
     ·LeuAsnLeu AsnLeuIleTyr AsnLeuAla AspPheVal AsnLysIleLeu·
 651 TCTTAATCTA AACCTTATTT ATAACCTTGC TGACTTTGTT AACAAGATTC
     · PheGlyLeu IleIleTrp AsnValAlaVal LysGluSer SerAsnAla
 701 TATTTGGTTT AATTATATGG AATGTTGCTG TTAAAGAATC TTCTAATGCT
 751 A
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Figure 1-36

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    MetGlyLysLeu LeuLeuIle~LeuGlySer ValIleAlaLeu ProThrPhe·
  1 ATGGGTAAAT TATTACTGAT ATTAGGTAGT GTTATTGCGC TTCCAACATT
    ·AlaAlaGly GlyGlyAspLeu AspAlaSer AspTyrThr GlyValSerPhe·
 51 TGCCGCTGGT GGTGGTGACC TGGATGCTAG TGACTACACT GGTGTATCTT
    · TrpLeuVal ThrAlaAla LeuLeuAlaSer ThrValPhe PhePheVal
101 TCTGGTTAGT TACTGCTGCT CTATTAGCAT CTACTGTATT TTTCTTTGTT
    GluArgAspArg ValSerAla LysTrpLys ThrSerLeuThr ValSerGly·
151 GAAAGAGACA GAGTTTCTGC TAAATGGAAA ACATCATTAA CAGTATCTGG
    ·LeuValThr GlyIleAlaPhe TrpHisTyr MetTyrMet ArgGlyValTrp·
201 TTTAGTTACT GGTATTGCTT TTTGGCATTA CATGTACATG AGAGGTGTAT
    · IleGluThr GlyAspSer ProThrValPhe ArgTyrIle AspTrpLeu
251 GGATTGAAAC TGGTGATTCA CCAACTGTTT TTAGATACAT CGACTGGTTG
    LeuThrValPro LeuLeuIle CysGluPhe TyrLeuIleLeu AlaAlaAla·
301 CTAACTGTGC CTTTACTAAT TTGTGAGTTC TACTTAATAC TAGCAGCAGC
    ·ThrAsnVal AlaGlySerLeu PheLysLys LeuLeuVal GlySerLeuVal·
351 TACTAACGTT GCTGGTTCTT TATTCAAGAA ATTACTAGTT GGTTCTCTTG
    · MetLeuVal PheGlyTyr MetGlyGluAla GlyIleMet AlaAlaTrp
401 TTATGCTTGT GTTTGGTTAC ATGGGTGAAG CAGGAATTAT GGCAGCCTGG
    ProAlaPheIle IleGlyCys LeuAlaTrp ValTyrMetIle TyrGluLeu·
451 CCTGCATTCA TTATAGGATG TTTAGCATGG GTATACATGA TTTATGAATT
    ·TrpAlaGly GluGlyLysSer AlaCysAsn ThrAlaSer ProAlaValGln·
501 ATGGGCTGGA GAAGGAAAGT CTGCATGTAA CACTGCAAGT CCTGCAGTTC
    · SerAlaTyr AsnThrMet MetTyrIleIle IlePheGly TrpAlaIle
551 AGTCAGCTTA CAACACAATG ATGTATATCA TCATCTTTGG TTGGGCTATT
    TyrLeuValGly TyrPheThr GlyTyrLeu MetGlyAspGly GlySerAla·
601 TACCTTGTAG GTTATTTCAC TGGTTACCTA ATGGGTGACG GTGGATCAGC
    ·LeuAsnLeu AsnLeuIleTyr AsnLeuAla AspPheVal AsnLysIleLeu·
651 TCTTAACTTA AACCTTATCT ATAACCTTGC TGACTTTGTT AACAAGATTC
    · PheGlyLeu IleIleTrp AsnValAlaVal LysGluSer SerAsnAla
701 TATTTGGTTT AATTATATGG AATGTTGCTG TTAAAGAATC TTCTAATGCT
751 A
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Figure 1-37

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     MetGlyLysLeu LeuLeuIle LeuGlySer ValIleAlaLeu ProThrPhe·
   1 ATGGGTAAAT TATTACTGAT ATTAGGTAGT GTTATTGCGC TTCCAACATT
     ·AlaAlaGly GlyGlyAspLeu AspAlaSer AspTyrThr GlyValSerPhe·
  51 TGCCGCTGGC GGTGGCGATC TTGATGCTAG TGACTACACT GGTGTTTCTT
     · TrpLeuVal ThrAlaAla LeuLeuAlaSer ThrValPhe PhePheVal
 101 TCTGGTTAGT TACTGCTGCT CTATTAGCAT CTACTGTATT CTTCTTTGTT
     GluArgAspArg ValSerAla LysTrpLys ThrSerLeuThr ValSerGly·
 151 GAAAGGGATA GAGTATCTGC AAAATGGAAA ACTTCATTAA CAGTATCTGG
     ·LeuValThr GlyIleAlaPhe TrpHisTyr MetTyrMet ArgGlyValTrp·
 201 TTTAGTTACT GGTATTGCTT TTTGGCATTA TATGTACATG AGAGGTGTAT
     · IleGluThr GlySerSer ProThrValPhe ArgTyrIle AspTrpLeu
 251 GGATAGAAAC TGGTAGTTCA CCTACTGTCT TTAGATACAT TGACTGGCTA
     LeuThrValPro LeuLeuIle CysGluPhe TyrLeuIleLeu AlaAlaAla·
 301 TTAACAGTGC CTTTACTAAT ATGTGAGTTC TATTTAATAC TTGCCGCAGC
     ·ThrAsnVal AlaGlySerLeu PheLysLys LeuLeuVal GlySerLeuVal·
 351 TACTAATGTT GCTGGTTCAT TATTTAAGAA ATTGCTAGTT GGTTCTCTTG
     · MetLeuVal PheGlyTyr MetGlyGluAla GlyIleMet AlaAlaTrp
 401 TTATGCTTGT GTTCGGTTAC ATGGGTGAAG CAGGAATAAT GGCAGCTTGG
     ProAlaPheIle IleGlyCys LeuAlaTrp ValTyrMetIle TyrGluLeu·
 451 CCTGCATTCA TCATTGGGTG TTTAGCATGG GTATATATGA TTTATGAGCT
     ·TrpAlaGly GluGlyLysSer AlaCysAsn ThrAlaSer ProAlaValGln·
 501 ATGGGCTGGT GAAGGAAAAT CTGCATGTAA TACTGCAAGT CCTGCTGTAC
     · SerAlaTyr AsnThrMet MetTyrIleIle IleAlaGly TrpAlaIle
 551 AGTCAGCTTA CAACACAATG ATGTATATCA TCATCGCTGG TTGGGCAATT
     TyrProValGly TyrPheThr GlyTyrLeu MetGlyAspGly GlySerAla·
 601 TATCCTGTAG GTTATTTCAC AGGTTACCTA ATGGGTGACG GTGGATCAGC
     ·LeuAsnLeu AsnLeuIleTyr AsnLeuAla AspPheVal AsnLysIleLeu·
 651 TCTTAATCTA AACCTTATTT ATAACCTTGC TGACTTTGTT AACAAGATTC
     · PheGlyLeu IleIleTrp AsnValAlaVal LysGluSer SerAsnAla
 701 TATTTGGTTT AATTATATGG AATGTTGCTG TTAAAGAATC TTCTAATGCT
 751 A
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Figure 1-38

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     MetGlyLysLeu LeuLeuIle LeuGlySer ValIleAlaLeu ProThrPhe·
   1 ATGGGTAAAT TATTACTGAT ATTAGGTAGT GTTATCGCGC TTCCAACATT
     ·AlaAlaGly GlyGlyAspLeu AspAlaSer AspTyrThr GlyValSerPhe·
  51 TGCTGCTGGC GGTGGCGATC TTGATGCTAG TGACTACACT GGTGTTTCAT
     · TrpLeuVal ThrAlaAla LeuLeuAlaSer ThrValPhe PhePheVal
 101 TCTGGTTAGT TACTGCTGCT CTATTAGCGT CTACTGTATT CTTCTTTGTT
     GluArgAspArg ValSerAla LysTrpLys ThrSerLeuThr ValSerGly·
 151 GAAAGAGATA GAGTGTCTGC AAAATGGAAA ACTTCATTAA CAGTATCTGG
     ·LeuValThr GlyIleAlaPhe TrpHisTyr MetTyrMet ArgGlyValTrp·
 201 TTTAGTTACT GGTATTGCTT TTTGGCATTA TATGTACATG AGAGGTGTAT
     · IleGluThr GlyAspSer ProThrValPhe ArgTyrIle AspTrpLeu
 251 GGATAGAAAC TGGTGATTCG CCTACTGTCT TTAGATACAT CGACTGGTTA
     LeuThrValPro LeuLeuIle CysGluPhe TyrLeuIleLeu AlaAlaAla·
 301 TTAACTGTGC CTTTACTAAT ATGTGAGTTC TATCTGATAC TTGCTGCAGC
     ·ThrAsnVal AlaGlySerLeu PheLysLys LeuLeuVal GlySerLeuVal·
 351 TACTAATGTT GCTGGTTCAT TATTTAAGAA ATTGCTAGTT GGTTCTCTTG
     · MetLeuVal PheGlyTyr MetGlyGluAla GlyIleMet AlaAlaTrp
 401 TGATGCTTGT GTTTGGTTAC ATGGGTGAAG CAGGAATAAT GGCAGCTTGG
     ProAlaPheIle IleGlyCys LeuAlaTrp ValTyrMetIle TyrGluLeu·
 451 CCTGCATTCA TCATTGGATG TTTAGCATGG GTATATATGA TTTATGAACT
     ·TrpAlaGly GluGlyLysSer AlaCysAsn ThrAlaSer ProAlaValGln·
 501 ATGGGCTGGT GAAGGAAAAT CTGCATGCAA TACTGCAAGT CCTGCTGTAC
     · SerAlaTyr AsnThrMet MetTyrIleIle IleValGly TrpAlaIle
 551 AGTCAGCTTA CAACACAATG ATGTATATCA TCATCGTTGG TTGGGCAATT
     TyrProValGly TyrPheThr GlyTyrLeu MetGlyAspGly GlySerAla·
 601 TATCCTGTAG GTTATTTCAC AGGTTACCTA ATGGGTGACG GTGGATCAGC
     ·LeuAsnLeu AsnLeuIleTyr AsnLeuAla AspPheVal AsnLysIleLeu·
 651 TCTTAATCTA AACCTTATTT ATAACCTTGC TGACTTTGTT AACAAGATTC
     · PheGlyLeu IleIleTrp AsnValAlaVal LysGluSer SerAsnAla
 701 TATTTGGTTT AATTATATGG AATGTTGCTG TTAAAGAATC TTCTAATGCT
 751 A
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Figure 1-39

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     MetGlyLysLeu LeuLeuIle LeuGlySer ValIleAlaLeu ProThrPhe·
   1 ATGGGTAAAT TATTACTGAT ATTAGGTAGT GTTATTGCAC TTCCTACATT
     ·AlaAlaGly GlyGlyAspLeu AspAlaSer AspTyrThr GlyValSerPhe·
  51 TGCTGCAGGT GGTGGTGACC TTGATGCTAG TGATTACACT GGTGTTTCTT
     · TrpLeuVal ThrAlaAla LeuLeuAlaSer ThrValPhe PhePheVal
 101 TTTGGTTAGT TACTGCTGCT TTATTAGCAT CTACTGTATT TTTCTTTGTT
     GluArgAspArg ValSerAla LysTrpLys ThrSerLeuAla ValSerGly·
 151 GAAAGAGATA GAGTTTCTGC AAAATGGAAA ACATCATTAG CTGTATCTGG
     ·LeuIleThr GlyIleAlaPhe TrpHisCys MetTyrMet ArgGlyValTrp·
 201 TCTTATTACT GGTATTGCGT TCTGGCATTG CATGTACATG AGAGGGGTAT
     · IleGluThr GlyAspSer ProThrValPhe ArgTyrIle AspTrpLeu
 251 GGATTGAAAC TGGTGATTCG CCAACTGTAT TTAGATACAT TGATTGGTTA
     LeuThrValPro LeuLeuIle CysGluPhe TyrLeuIleLeu AlaAlaAla·
 301 CTAACAGTTC CTCTATTAAT ATGTGAATTC TACTTAATTC TTGCTGCTGC
     ·ThrAsnVal AlaGlySerLeu PheLysLys LeuLeuVal GlySerLeuVal·
 351 AACTAATGTT GCTGGATCAT TATTTAAGAA ATTACTAGTT GGTTCTCTTG
     · MetLeuVal PheGlyTyr MetGlyGluAla GlyIleMet AlaAlaTrp
 401 TTATGCTTGT GTTTGGTTAC ATGGGTGAAG CAGGAATCAT GGCTGCATGG
     ProAlaPheIle IleGlyCys LeuAlaTrp ValTyrMetIle TyrGluLeu·
 451 CCTGCATTCA TTATTGGGTG TTTAGCTTGG GTATACATGA TTTATGAATT
     ·TrpAlaGly GluGlyLysSer AlaCysAsn ThrAlaSer ProAlaValGln·
 501 ATGGGCTGGA GAAGGAAAAT CTGCATGTAA TACTGCAAGT CCTGCTGTGC
     · SerAlaTyr AsnThrMet MetTyrIleIle ValPheGly TrpAlaIle
 551 AATCAGCTTA CAACACAATG ATGTATATTA TCGTCTTTGG TTGGGCGATT
     TyrProValGly TyrPheThr GlyTyrLeu MetGlyAspGly GlySerAla·
 601 TATCCTGTAG GTTATTTCAC AGGTTACCTG ATGGGTGACG GTGGATCAGC
     ·LeuAsnLeu AsnLeuIleTyr AsnLeuAla AspPheVal AsnLysIleLeu·
 651 TCTTAACTTA AACCTTATCT ATAACCTTGC TGACTTTGTT AACAAGATTC
     · PheGlyLeu IleIleTrp AsnValAlaVal LysGluSer SerAsnAla
 701 TATTTGGTTT AATTATATGG AATGTTGCTG TTAAAGAATC TTCTAATGCT
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Figure 1-40

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     MetGlyLysLeu LeuLeuIle LeuGlySer ValIleAlaLeu ProThrPhe·
   1 ATGGGTAAAT TATTACTGAT ATTAGGTAGT GTTATTGCAC TTCCTACATT
     ·AlaAlaGly GlyGlyAspLeu AspAlaSer AspTyrThr GlyValSerPhe·
  51 TGCTGCAGGT GGTGGTGACC TTGATGCTAG TGATTACACT GGTGTTTCTT
     · TrpLeuVal ThrAlaAla LeuLeuAlaSer ThrValPhe SerPheVal
 101 TTTGGTTAGT TACTGCTGCT TTATTAGCAT CTACTGTATT TTCCTTTGTT
     GluArgAspArg ValSerAla LysTrpLys ThrSerLeuThr ValSerGly·
 151 GAAAGAGATA GAGTTTCTGC AAAATGGAAA ACATCATTAA CTGTATCTGG
     ·LeuIleThr GlyIleAlaPhe TrpHisTyr MetTyrMet ArgGlyValTrp·
 201 TCTTATTACT GGTATTGCTT TCTGGCATTA CATGTACATG AGAGGGGTAT
     · IleGluThr GlyAspSer ProThrValPhe ArgTyrIle AspTrpLeu
 251 GGATTGAAAC TGGTGATTCG CCAACTGTAT TTAGATACAT TGATTGGTTA
     LeuThrValPro LeuLeuIle CysGluPhe TyrLeuIleLeu AlaAlaAla·
 301 CTAACAGTTC CTCTATTAAT ATGTGAATTC TACTTAATTC TTGCTGCTGC
     ·ThrAsnVal AlaGlySerLeu PheLysLys LeuLeuVal GlySerLeuVal·
 351 AACTAATGTT GCTGGATCAT TATTTAAGAA ATTACTAGTT GGTTCTCTTG
     · MetLeuVal PheGlyTyr MetGlyGluAla GlyIleMet AlaAlaTrp
 401 TTATGCTTGT GTTTGGTTAC ATGGGTGAAG CAGGAATCAT GGCTGCATGG
     ProAlaPheIle IleGlyCys LeuAlaTrp ValTyrMetIle TyrGluLeu·
 451 CCTGCATTCA TTATTGGGTG TTTAGCTTGG GTATACATGA TTTATGAATT
     ·TrpAlaGly GluGlyLysSer AlaCysAsn ThrAlaSer ProAlaValGln·
 501 ATGGGCTGGA GAAGGAAAAT CTGCATGTAA TACTGCAAGT CCTGCTGTGC
     · SerAlaTyr AsnThrMet MetTyrIleIle IlePheGly TrpAlaIle
 551 AATCAGCTTA CAACACAATG ATGTATATTA TCATCTTTGG TTGGGCGATT
     TyrProValGly TyrPheThr GlyTyrLeu MetGlyAspGly GlySerAla·
 601 TATCCTGTAG GTTATTTCAC AGGTTACCTG ATGGGTGACG GTGGATCAGC
     ·LeuAsnLeu AsnLeuIleTyr AsnLeuAla AspPheVal AsnLysIleLeu·
 651 TCTTAACTTA AACCTTATCT ATAACCTTGC TGACTTTGTT AACAAGATTC
     · PheGlyLeu IleIleTrp AsnValAlaVal LysGluSer SerAsnAla
 701 TATTTGGTTT AATTATATGG AATGTTGCTG TTAAAGAATC TTCTAATGCT
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Figure 1-41

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     MetGlyLysLeu LeuLeuIle LeuGlySer ValIleAlaLeu ProThrPhe·
   1 ATGGGTAAAT TATTACTGAT ATTAGGTAGT GTTATTGCAC TTCCTACATT
     ·AlaAlaGly GlyGlyAspLeu AspAlaSer AspTyrThr GlyValSerPhe·
  51 TGCTGCAGGT GGTGGTGACC TTGATGCTAG TGATTACACT GGTGTTTCTT
     · TrpLeuVal ThrAlaAla LeuLeuAlaSer ThrValPhe PhePheVal
 101 TTTGGTTAGT TACTGCTGCT TTATTAGCAT CTACTGTATT TTTCTTTGTT
     GluArgAspArg ValSerAla LysTrpLys ThrSerLeuThr ValSerGly·
 151 GAAAGAGATA GAGTTTCTGC AAAATGGAAA ACATCATTAA CTGTATCTGG
     ·LeuIleThr GlyIleAlaPhe TrpHisTyr MetTyrMet ArgGlyValTrp·
 201 TCTTATTACT GGTATTGCTT TCTGGCATTA CATGTACATG AGAGGGGTAT
     · IleGluThr GlyAspSer ProThrValPhe ArgTyrIle AspTrpLeu
 251 GGATTGAAAC TGGTGATTCG CCAACCGTAT TTAGATACAT TGATTGGTTA
     LeuThrValPro LeuLeuIle CysGluPhe TyrLeuIleLeu AlaAlaAla·
 301 CTAACAGTTC CTCTATTAAT ATGTGAATTC TACTTAATTC TTGCTGCTGC
     ·ThrAsnVal AlaGlySerLeu PheLysLys LeuLeuVal GlySerLeuVal·
 351 AACTAATGTT GCTGGATCAT TATTTAAGAA ATTACTAGTT GGTTCTCTTG
     · MetLeuVal PheGlyTyr MetGlyGluAla GlyIleMet AlaAlaTrp
 401 TTATGCTTGT GTTTGGTTAC ATGGGTGAAG CAGGAATCAT GGCTGCATGG
     ProAlaPheIle IleGlyCys LeuAlaTrp ValTyrMetIle TyrGluLeu·
 451 CCTGCATTCA TTATTGGGTG TTTAGCTTGG GTATACATGA TTTATGAATT
     ·TrpAlaGly GluGlyLysSer AlaCysAsn ThrAlaSer ProAlaValGln·
 501 ATGGGCTGGA GAAGGAAAAT CTGCATGTAA TACTGCAAGT CCTGCTGTGC
     · SerAlaTyr AsnThrMet MetTyrIleIle IlePheGly TrpAlaIle
 551 AATCAGCTTA CAACACAATG ATGTATATTA TCATCTTTGG TTGGGCGATT
     TyrProValGly TyrPheThr GlyTyrLeu MetGlyAspGly GlySerAla·
 601 TATCCTGTAG GTTATTTCAC AGGTTACCTG ATGGGTGACG GTGGATCAGC
     ·LeuAsnLeu AsnLeuIleTyr AsnLeuAla AspPheVal AsnLysIleLeu·
 651 ACTTAACTTA AACCTTATCT ATAACCTTGC TGACTTTGTT AACAAGATTC
     · PheGlySer IleIleTrp AsnValAlaVal LysGluSer SerAsnAla
 701 TATTTGGTTC AATTATATGG AATGTTGCTG TTAAAGAATC TTCTAATGCT
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Figure 1-42

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     MetGlyLysLeu LeuLeuIle LeuGlySer ValIleAlaLeu ProThrPhe·
   1 ATGGGTAAAT TATTACTGAT ATTAGGTAGT GTTATTGCAC TTCCTACATT
     ·AlaAlaGly GlyGlyAspLeu AspAlaSer AspTyrThr GlyValSerPhe·
  51 TGCTGCAGGT GGTGGTGACC TTGATGCTAG TGATTACACT GGTGTTTCTT
     · TrpLeuVal ThrAlaAla LeuLeuAlaSer ThrValPhe PhePheVal
 101 TTTGGTTAGT TACTGCTGCT TTATTAGCGT CTACTGTATT CTTCTTTGTT
     GluArgAspArg ValSerAla LysTrpLys ThrSerLeuThr ValSerGly·
 151 GAAAGAGATA GAGTGTCTGC AAAATGGAAA ACTTCATTAA CAGTATCTGG
     ·LeuValThr GlyIleAlaPhe TrpHisTyr MetTyrMet ArgGlyValTrp·
 201 TTTAGTTACT GGTATTGCTT TTTGGCATTA TATGTACATG AGAGGTGTAT
     · IleGluThr GlyAspSer ProThrValPhe ArgTyrIle AspTrpLeu
 251 GGATAGAAAC TGGTGATTCG CCTACTGTCT TTAGATACAT CGACTGGTTA
     LeuThrValPro LeuLeuIle CysGluPhe TyrLeuIleLeu AlaAlaAla·
 301 TTAACTGTGC CTTTACTAAT ATGTGAGTTC TATCTGATAC TTGCTGCAGC
     ·ThrAsnVal AlaGlySerLeu PheLysLys LeuLeuVal GlySerLeuVal·
 351 TACTAATGTT GCTGGTTCAT TATTTAAGAA ATTGCTAGTT GGTTCTCTTG
     · MetLeuVal PheGlyTyr MetGlyGluAla GlyIleMet AlaAlaTrp
 401 TGATGCTTGT GTTTGGTTAC ATGGGTGAAG CAGGAATAAT GGCAGCTTGG
     ProAlaPheIle IleGlyCys LeuAlaTrp ValTyrMetIle TyrGluLeu·
 451 CCTGCATTCA TCATTGGGTG TTTAGCATGG GTATATATGA TTTATGAACT
     ·TrpAlaGly GluGlyLysSer AlaCysAsn ThrAlaSer ProAlaValGln·
 501 ATGGGCTGGT GAAGGAAAAT CTGCATGCAA TACTGCAAGT CCTGCTGTAC
     · SerAlaTyr AsnThrMet MetTyrIleIle IleValGly TrpAlaIle
 551 AGTCAGCTTA CAACACAATG ATGTATATCA TCATCGTTGG TTGGGCAATA
     TyrProValGly TyrPheThr GlyTyrLeu MetGlyAspGly GlySerAla·
 601 TATCCTGTAG GTTATTTCAC AGGTTACCTA ATGGGTGACG GTGGATCAGC
     ·LeuAsnLeu AsnLeuIleTyr AsnLeuAla AspPheVal AsnLysIleLeu·
 651 TCTTAATCTA AACCTTATCT ATAACCTTGC TGACTTTGTT AACAAGATTC
     · PheGlyLeu IleIleTrp AsnValAlaVal LysGluSer SerAsnAla
 701 TATTTGGTTT AATTATATGG AATGTTGCTG TTAAAGAATC TTCTAATGCT
 751 A
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Figure 1-43

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     MetGlyLysLeu LeuLeuIle LeuGlySer ValIleAlaLeu ProThrPhe·
   1 ATGGGTAAAT TATTACTGAT ATTAGGTAGT GTTATCGCGC TTCCAACATT
     ·AlaAlaGly GlyGlyAspLeu AspAlaSer AspTyrThr GlyValSerPhe·
  51 TGCTGCTGGC GGTGGCGATC TTGATGCTAG TGACTATACT GGTGTTTCAT
     · TrpLeuVal ThrAlaAla LeuLeuAlaSer ThrValPhe PhePheVal
 101 TCTGGTTAGT TACTGCTGCT CTATTAGCGT CTACTGTATT CTTCTTTGTT
     GluArgAspArg ValSerAla LysTrpLys ThrSerLeuThr ValSerGly·
 151 GAAAGAGATA GAGTGTCTGC AAAATGGAAA ACTTCATTAA CAGTATCTGG
     ·LeuValThr GlyIleAlaPhe TrpHisTyr MetTyrMet ArgGlyValTrp·
 201 TTTAGTTACT GGTATTGCTT TTTGGCATTA TATGTACATG AGAGGTGTAT
     · IleGluThr GlyAspSer ProThrValPhe ArgTyrIle AspTrpLeu
 251 GGATAGAAAC TGGTGATTCG CCTACTGTCT TTAGATACAT CGACTGGTTA
     LeuThrValPro LeuLeuIle CysGluPhe TyrLeuIleLeu AlaAlaAla·
 301 TTAACTGTGC CTTTACTAAT ATGTGAGTTC TATCTGATAC TTGCTGCAGC
     ·ThrAsnVal AlaGlySerLeu PheLysLys LeuLeuVal GlySerLeuVal·
 351 TACTAATGTT GCTGGTTCAT TATTTAAGAA ATTGCTAGTT GGTTCTCTTG
     · MetLeuVal PheGlyTyr MetGlyGluAla GlyIleMet AlaAlaTrp
 401 TGATGCTTGT GTTTGGTTAC ATGGGTGAAG CAGGAATAAT GGCAGCTTGG
     ProAlaPheIle IleGlyCys LeuAlaTrp ValTyrMetIle TyrGluLeu·
 451 CCTGCATTCA TCATTGGATG TTTAGCATGG GTATATATGA TTTATGAACT
     ·TrpAlaGly GluGlyLysSer AlaCysAsn ThrAlaSer ProAlaValGln·
 501 ATGGGCTGGT GAAGGAAAAT CTGCATGCAA TACTGCAAGT CCTGCTGTAC
     · SerAlaTyr AsnThrMet MetTyrIleIle IleValGly TrpAlaIle
 551 AGTCAGCTTA CAACACAATG ATGTATATCA TCATCGTTGG TTGGGCAATT
     TyrProValGly TyrPheThr GlyTyrLeu MetGlyAspGly GlySerAla·
 601 TATCCTGTAG GCTATTTCAC AGGTTACCTA ATGGGTGACG GTGGATCAGC
     ·LeuAsnLeu AsnLeuIleTyr AsnLeuAla AspPheVal AsnLysIleLeu·
 651 TCTTAATCTA AACCTTATTT ATAACCTTGC TGACTTTGTT AACAAGATTC
     · PheGlyLeu IleIleTrp AsnValAlaVal LysGluSer SerAsnAla
 701 TATTTGGTTT AATTATATGG AATGTTGCTG TTAAAGAATC TTCTAATGCT
 751 A
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Figure 1-44

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     MetGlyLysLeu LeuLeuIle LeuGlySer ValIleAlaLeu ProThrPhe·
   1 ATGGGTAAAT TATTACTGAT ATTAGGTAGT GTTATTGCAC TTCCTACATT
     ·AlaAlaGly GlyGlyAspLeu AspAlaSer AspTyrThr GlyValSerPhe·
  51 TGCTGCAGGT GGTGGTGACC TTGATGCTAG TGATTACACT GGTGTTTCTT
     · TrpLeuVal ThrAlaAla LeuLeuAlaSer ThrValPhe PhePheVal
 101 TTTGGTTAGT TACTGCTGCT TTATTAGCAT CTACTGTATT TTTCTTTGTT
     GluArgAspArg ValSerAla LysTrpLys ThrSerLeuThr ValSerGly·
 151 GAAAGAGATA GAGTTTCTGC AAAATGGAAA ACATCATTAA CTGTATCTGG
     ·LeuValThr GlyIleAlaPhe TrpHisTyr MetTyrMet ArgGlyValTrp·
 201 TCTTGTTACT GGTATTGCTT TCTGGCATTA CATGTACATG AGAGGGGTAT
     · IleGluThr GlyAspSer ProThrValPhe ArgTyrIle AspTrpLeu
 251 GGATTGAAAC TGGTGATTCG CCAACTGTAT TTAGATACAT TGATTGGTTA
     LeuProValPro LeuAlaIle CysGluPhe TyrLeuIleLeu AlaAlaAla·
 301 CTACCAGTTC CTCTAGCAAT ATGTGAATTC TACTTAATTC TTGCTGCTGC
     ·ThrAsnVal AlaGlySerLeu PheLysLys LeuLeuVal GlySerLeuVal·
 351 AACTAATGTT GCTGGATCAT TATTTAAGAA ATTACTAGTT GGTTCTCTTG
     · MetLeuVal PheGlyTyr MetGlyGluAla GlyIleMet AlaAlaTrp
 401 TTATGCTTGT GTTTGGTTAC ATGGGTGAAG CAGGAATCAT GGCTGCATGG
     ProAlaPheIle IleGlyCys LeuAlaTrp ValTyrMetIle TyrGluLeu·
 451 CCTGCATTCA TTATTGGGTG TTTAGCTTGG GTATACATGA TTTATGAATT
     ·TrpAlaGly GluGlyLysSer AlaCysAsn ThrAlaSer ProAlaValGln·
 501 ATGGGCTGGA GAAGGAAAAT CTGCATGTAA TACTGCAAGT CCTGCTGTGC
     · SerAlaTyr AsnThrMet MetTyrIleIle IlePheGly TrpAlaIle
 551 AATCAGCTTA CAACACAATG ATGTATATTA TCATCTTTGG TTGGGCGATT
     TyrProValGly TyrPheThr GlyTyrLeu MetGlyAspGly GlySerAla·
 601 TATCCTGTAG GTTATTTCAC AGGTTACCTG ATGGGTGACG GTGGATCAGC
     ·LeuAsnLeu AsnLeuIleTyr AsnLeuAla AspPheVal AsnLysIleLeu·
 651 TCTTAACTTA AACCTTATCT ATAACCTTGC TGACTTTGTT AACAAGATTC
     · PheGlyLeu IleIleTrp AsnValAlaVal LysGluSer SerAsnAla
 701 TATTTGGTTT AATTATATGG AATGTTGCTG TTAAAGAATC TTCTAATGCT
 751 A
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Figure 1-45

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     MetGlyLysLeu LeuLeuIle LeuGlySer ValIleAlaLeu ProThrPhe·
   1 ATGGGTAAAT TATTACTGAT ATTAGGTAGT GTTATTGCGC TTCCAACATT
     ·AlaAlaGly GlyGlyAspLeu AspAlaSer AspTyrThr GlyValSerPhe·
  51 TGCCGCTGGT GGTGGTGACC TGGATGCTAG TGACTACACT GGTGTATCTT
     · TrpLeuVal ThrAlaAla LeuLeuAlaSer ThrValPhe PhePheVal
 101 TCTGGTTAGT TACTGCTGCT CTATTAGCAT CTACTGTATT TTTCTTTGTT
     GluArgAspArg ValSerAla LysTrpLys ThrSerLeuThr ValSerGly·
 151 GAAAGAGACA GAGTTTCTGC TAAATGGAAA ACATCATTAA CAGTATCTGG
     ·LeuValThr GlyIleAlaPhe TrpHisTyr MetTyrMet ArgGlyValTrp·
 201 TTTAGTTACT GGTATTGCTT TTTGGCATTA CATGTACATG AGAGGTGTAT
     · IleGluThr GlyAspSer ProThrValPhe ArgTyrIle AspTrpLeu
 251 GGATTGAAAC TGGTGATTCA CCAACTGTTT TTAGATACAT CGACTGGTTG
     LeuThrValPro LeuLeuIle CysGluPhe TyrLeuIleLeu AlaAlaAla·
 301 CTAACTGTGC CTTTACTAAT TTGTGAGTTC TACTTAATAC TAGCAGCAGC
     ·ThrAsnVal AlaGlySerLeu PheLysLys LeuLeuVal GlySerLeuVal·
 351 TACTAACGTT GCTGGTTCTT TATTCAAGAA ATTACTAGTT GGTTCTCTTG
     · MetLeuVal PheGlyTyr MetGlyGluAla GlyIleMet AlaAlaTrp
 401 TTATGCTTGT GTTTGGTTAC ATGGGTGAAG CAGGAATTAT GGCAGCCTGG
     ProAlaPheIle IleGlyCys LeuAlaTrp ValTyrMetIle TyrGluLeu·
 451 CCTGCATTCA TTATAGGATG TTTAGCATGG GTATACATGA TTTATGAATT
     ·TrpAlaGly GluGlyLysSer AlaCysAsn ThrAlaSer ProAlaValGln·
 501 ATGGGCTGGA GAAGGAAAGT CTGCATGTAA CACTGCAAGT CCTGCAGTTC
     · SerAlaTyr AsnThrMet MetTyrIleIle IlePheGly TrpAlaIle
 551 AGTCAGCTTA CAACACAATG ATGTATATCA TCATCTTTGG TTGGGCTATT
     TyrLeuValGly TyrPheThr GlyTyrLeu MetGlyAspGly GlySerAla·
 601 TACCTTGTAG GTTATTTCAC TGGTTACCTA ATGGGTGACG GTGGATCAGC
     ·LeuAsnLeu AsnLeuIleTyr AsnLeuAla AspPheVal AsnLysIleLeu·
 651 TCTTAACTTA AACCTTATCT ATAACCTTGC TGACTTTGTT AACAAGATTC
     · PheGlyLeu IleIleTrp AsnValAlaVal LysGluSer SerAsnAla
 701 TATTTGGTTT AATTATATGG AATGTTGCTG TTAAAGAATC TTCTAATGCT
 751 A
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Figure 1-46

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    MetGlyLysLeu LeuLeuIle LeuGlySer ValIleAlaLeu ProThrPhe·
  1 ATGGGTAAAT TATTACTGAT ATTAGGTAGT GTTATTGCGC TTCCAACATT
    ·AlaAlaGly GlyGlyAspLeu AspAlaSer AspTyrThr GlyValSerPhe·
 51 TGCCGCTGGC GGTGGCGATC TTGATGCTAG TGACTACACT GGTGTTTCTT
    · TrpLeuVal ThrAlaAla LeuLeuAlaSer ThrValPhe PhePheVal
101 TCTGGTTAGT TACTGCTGCT CTATTAGCAT CTACTGTATT CTTCTTTGTT
    GluArgAspArg ValSerAla LysTrpLys ThrSerLeuThr ValSerGly·
151 GAAAGGGATA GAGTATCTGC AAAATGGAAA ACTTCATTAA CAGTATCTGG
    ·LeuValThr GlyIleAlaPhe TrpHisTyr MetTyrMet ArgGlyValTrp·
201 TTTAGTTACT GGTATTGCTT TTTGGCATTA TATGTACATG AGAGGTGTAT
    · IleGluThr GlySerSer ProThrValPhe ArgTyrIle AspTrpLeu
251 GGATAGAAAC TGGTAGTTCA CCTACTGTCT TTAGATACAT TGACTGGCTA
    LeuThrValPro LeuLeuIle CysGluPhe TyrLeuIleLeu AlaAlaAla·
301 TTAACAGTGC CTTTACTAAT ATGTGAGTTC TATTTAATAC TTGCCGCAGC
    ·ThrAsnVal AlaGlySerLeu PheLysLys LeuLeuVal GlySerLeuVal·
351 TACTAATGTT GCTGGTTCAT TATTTAAGAA ATTGCTAGTT GGTTCTCTTG
    · MetLeuVal PheGlyTyr MetGlyGluAla GlyIleMet AlaAlaTrp
401 TTATGCTTGT GTTTGGTTAC ATGGGTGAAG CAGGAATTAT GGCAGCCTGG
    ProAlaPheIle IleGlyCys LeuAlaTrp ValTyrMetIle TyrGluLeu·
451 CCTGCATTCA TTATAGGATG TTTAGCATGG GTATACATGA TTTATGAATT
    ·TrpAlaGly GluGlyLysSer AlaCysAsn ThrAlaSer ProAlaValGln·
501 ATGGGCTGGA GAAGGAAAGT CTGCATGTAA CACTGCAAGT CCTGCAGTTC
    · SerAlaTyr AsnThrMet MetTyrIleIle IlePheGly TrpAlaIle
551 AGTCAGCTTA CAACACAATG ATGTATATCA TCATCTTTGG TTGGGCTATT
    TyrLeuValGly TyrPheThr GlyTyrLeu MetGlyAspGly GlySerAla·
601 TACCTTGTAG GTTATTTCAC TGGTTACCTA ATGGGTGACG GTGGATCAGC
    ·LeuAsnLeu AsnLeuIleTyr AsnLeuAla AspPheVal AsnLysIleLeu·
651 TCTTAACTTA AACCTTATCT ATAACCTTGC TGACTTTGTT AACAAGATTC
    · PheGlyLeu IleIleTrp AsnValAlaVal LysGluSer SerAsnAla
701 TATTTGGTTT AATTATATGG AATGTTGCTG TTAAAGAATC TTCTAATGCT
751 A
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Figure 1-47

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     MetGlyLysLeu LeuLeuArg LeuGlySer ValIleAlaLeu ProThrPhe·
   1 ATGGGTAAAT TATTACTGAG ATTAGGTAGT GTTATCGCGC TTCCAACATT
     ·AlaAlaGly GlyGlyAspLeu AspAlaSer AspTyrThr GlyValSerPhe·
  51 TGCTGCTGGC GGTGGCGATC TTGATGCTAG TGACTATACT GGTGTTTCAT
     · TrpLeuVal ThrAlaAla LeuLeuAlaSer ThrValPhe PhePheVal
 101 TCTGGTTAGT TACTGCTGCT CTATTAGCGT CTACTGTATT CTTCTTTGTT
     GluArgAspArg ValSerAla LysTrpLys ThrSerLeuThr ValSerGly·
 151 GAAAGAGATA GAGTGTCTGC AAAATGGAAA ACTTCATTAA CAGTATCTGG
     ·LeuValThr GlyIleAlaPhe TrpHisTyr MetTyrMet ArgGlyValTrp·
 201 TTTAGTTACT GGTATTGCTT TTTGGCATTA TATGTACATG AGAGGTGTAT
     · IleGluThr GlyAspSer ProThrValPhe ArgTyrIle AspTrpLeu
 251 GGATAGAAAC TGGTGATTCG CCTACTGTCT TTAGATACAT CGACTGGTTA
     LeuThrValPro LeuLeuIle CysGluPhe TyrLeuIleLeu AlaAlaAla·
 301 TTAACTGTGC CTTTACTAAT ATGTGAGTTC TATCTGATAC TTGCTGCAGC
     ·ThrAsnVal AlaGlySerLeu PheLysLys LeuLeuVal GlySerLeuVal·
 351 TACTAATGTT GCTGGTTCAT TATTTAAGAA ATTGCTAGTT GGTTCTCTTG
     · MetLeuVal PheGlyTyr MetGlyGluAla GlyIleMet AlaAlaTrp
 401 TGATGCTTGT GTTTGGTTAC ATGGGTGAAG CAGGAATAAT GGCAGCTTGG
     ProAlaPheIle IleGlyCys LeuAlaTrp ValTyrMetIle TyrGluLeu·
 451 CCTGCATTCA TCATTGGATG TTTAGCATGG GTATATATGA TTTATGAACT
     ·TrpAlaGly GluGlyLysSer AlaCysAsn ThrAlaSer ProAlaValGln·
 501 ATGGGCTGGT GAAGGAAAAT CTGCATGCAA TACTGCAAGT CCTGCTGTAC
     · SerAlaTyr AsnThrMet MetTyrIleIle IleValGly TrpAlaIle
 551 AGTCAGCTTA CAACACAATG ATGTATATCA TCATCGTTGG TTGGGCAATT
     TyrProValGly TyrPheThr GlyTyrLeu MetGlyAspGly GlySerAla·
 601 TATCCTGTAG GTTATTTCAC AGGTTACCTA ATGGGTGACG GTGGATCAGC
     ·LeuAsnLeu AsnLeuIleTyr AsnLeuAla AspPheVal AsnLysIleLeu·
 651 TCTTAATCTA AACCTTATTT ATAACCTTGC TGACTTTGTT AACAAGATTC
     · PheGlyLeu IleIleTrp AsnValAlaVal LysGluSer SerAsnAla
 701 TATTTGGTTT AATTATATGG AATGTTGCTG TTAAAGAATC TTCTAATGCT
 751 A
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Figure 1-48

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    MetGlyLysLeu LeuLeuIle LeuGlySer ValIleAlaLeu ProThrPhe·
  1 ATGGGTAAAT TATTACTGAT ATTAGGTAGT GTTATTGCAC TTCCTACATT
    ·AlaAlaGly GlyGlyAspLeu AspAlaSer AspTyrThr GlyValSerPhe·
 51 TGCTGCAGGT GGTGGTGACC TTGATGCTAG TGATTACACT GGTGTTTCTT
    · TrpLeuVal ThrAlaAla LeuLeuAlaSer ThrValPhe PhePheVal
101 TTTGGTTAGT TACTGCTGCT TTATTAGCAT CTACTGTATT TTTCTTTGTT
    GluArgAspArg ValSerAla LysTrpLys ThrSerLeuAla ValSerGly·
151 GAAAGAGATA GAGTTTCTGC AAAATGGAAA ACATCATTAG CTGTATCTGG
    ·LeuIleThr GlyIleAlaPhe TrpHisTyr MetTyrMet ArgGlyValTrp·
201 TCTTATTACT GGTATTGCGT TCTGGCATTA CATGTACATG AGAGGGGTAT
    · IleGluThr GlyAspSer ProThrValPhe ArgTyrIle AspTrpLeu
251 GGATTGAAAC TGGTGATTCG CCAACTGTAT TTAGATACAT TGATTGGTTA
    LeuThrValPro LeuLeuIle CysGluPhe TyrLeuIleLeu AlaAlaAla·
301 CTAACAGTTC CTCTATTAAT ATGTGAATTC TACTTAATTC TTGCTGCTGC
    ·ThrAsnVal AlaGlySerLeu PheLysLys LeuLeuVal GlySerLeuVal·
351 AACTAATGTT GCTGGATCAT TATTTAAGAA ATTACTAGTT GGTTCTCTTG
    · MetLeuVal PheGlyTyr MetGlyGluAla GlyIleMet AlaAlaTrp
401 TTATGCTTGT GTTTGGTTAC ATGGGTGAAG CAGGAATCAT GGCTGCATGG
    ProAlaPheIle IleGlyCys LeuAlaTrp ValTyrMetIle TyrGluLeu·
451 CCTGCATTCA TTATTGGGTG TTTAGCTTGG GTATACATGA TTTATGAATT
    ·TrpAlaGly GluGlyLysSer AlaCysAsn ThrAlaSer ProAlaValGln·
501 ATGGGCTGGA GAAGGAAAAT CTGCATGTAA TACTGCAAGT CCTGCTGTGC
    · SerAlaTyr AsnThrMet MetTyrIleIle IleValGly TrpAlaIle
551 AGTCAGCTTA CAACACAATG ATGTATATCA TCATCGTTGG TTGGGCAATA
    TyrProValGly TyrPheThr GlyTyrLeu MetGlyAspGly GlySerAla·
601 TATCCTGTAG GTTATTTCAC AGGTTACCTA ATGGGTGACG GTGGATCAGC
    ·LeuAsnLeu AsnLeuIleTyr AsnLeuAla AspPheVal AsnLysIleLeu·
651 TCTTAATCTA AACCTTATTT ATAACCTTGC TGACTTTGTT AACAAGATTC
    · PheGlyLeu IleIleTrp AsnValAlaVal LysGluSer SerAsnAla
701 TATTTGGTTT AATTATATGG AATGTTGCTG TTAAAGAATC TTCTAATGCT
751 A
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Figure 1-49

```
     MetGlyLysLeu LeuLeuIle LeuGlySer ValIleAlaLeu ProThrPhe·
   1 ATGGGTAAAT TATTACTGAT CTTAGGTAGT GTTATTGCAC TTCCTACATT
     ·AlaAlaGly GlyGlyAspPro AspAlaSer AspTyrThr GlyValSerPhe·
  51 TGCTGCAGGT GGTGGTGACC CTGATGCTAG TGATTACACT GGTGTTTCTT
     · TrpLeuVal ThrAlaAla LeuLeuAlaSer ThrValPhe PhePheVal
 101 TTTGGTTAGT TACTGCTGCT TTATTAGCAT CTACTGTATT TTTCTTTGTT
     GluArgAspArg ValSerAla GluTrpLys ThrSerLeuThr ValSerGly·
 151 GAAAGAGATA GAGTTTCTGC AGAATGGAAA ACATCATTAA CTGTATCTGG
     ·LeuValThr GlyIleAlaPhe TrpHisTyr MetTyrMet ArgGlyValTrp·
 201 TCTTGTTACT GGTATTGCTT TCTGGCATTA CATGTACATG AGAGGGGTAT
     · IleGluThr GlyAspSer ProThrValPhe ArgTyrIle AspTrpLeu
 251 GGATTGAAAC TGGTGATTCG CCAACTGTAT TTAGATACAT TGATTGGTTA
     LeuThrValPro LeuGluIle CysGluPhe TyrLeuIleLeu AlaAlaAla·
 301 CTAACAGTTC CTCTAGAAAT ATGTGAATTC TACTTAATTC TTGCTGCTGC
     ·ThrAsnVal AlaGlySerLeu PheLysLys LeuLeuVal GlySerLeuVal·
 351 AACTAATGTT GCTGGATCAT TATTTAAGAA ATTACTAGTT GGTTCTCTTG
     · MetLeuVal PheGlyTyr MetGlyGluAla GlyIleMet AlaAlaTrp
 401 TTATGCTTGT GTTTGGTTAC ATGGGTGAAG CAGGAATCAT GGCTGCATGG
     ProAlaPheIle IleGlyCys LeuAlaTrp ValTyrMetIle TyrGluLeu·
 451 CCTGCATTCA TTATTGGGTG TTTAGCTTGG GTATACATGA TTTATGAATT
     ·TrpAlaGly GluGlyLysSer AlaCysAsn ThrAlaSer ProAlaValGln·
 501 ATGGGCTGGA GAAGGAAAAT CTGCATGTAA TACTGCAAGT CCTGCTGTGC
     · SerAlaTyr AsnThrMet MetTyrIleIle IlePheGly TrpAlaIle
 551 AATCAGCTTA CAACACAATG ATGTATATTA TCATCTTTGG TTGGGCGATT
     TyrProValGly TyrPheThr GlyTyrLeu MetGlyAspGly GlySerAla·
 601 TATCCTGTAG GTTATTTCAC AGGTTACCTG ATGGGTGACG GTGGATCAGC
     ·LeuAsnLeu AsnLeuIleTyr AsnLeuAla AspPheVal AsnLysIleLeu·
 651 TCTTAACTTA AACCTTATCT ATAACCTTGC TGACTTTGTT AACAAGATTC
     · IleGlyLeu IleIleTrp AsnValAlaVal LysGluSer SerAsnAla
 701 TAATTGGTTT AATTATATGG AATGTTGCTG TTAAAGAATC TTCTAATGCT
 751 A
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Figure 1-50

```
     MetGlyLysLeu LeuLeuIle LeuGlySer ValIleAlaLeu ProThrPhe·
   1 ATGGGTAAAT TATTACTGAT CTTAGGTAGT GTTATTGCAC TTCCTACATT
     ·AlaAlaGly GlyGlyAspLeu AspAlaSer AspTyrThr GlyValSerPhe·
  51 TGCTGCAGGT GGTGGTGACC TTGATGCTAG TGATTACACT GGTGTTTCTT
     · TrpLeuVal ThrAlaAla LeuLeuAlaSer ThrValPhe PhePheVal
 101 TTTGGTTAGT TACTGCTGCT TTATTAGCAT CTACTGTATT TTTCTTTGTT
     GluArgAspArg ValSerAla LysTrpLys ThrSerLeuThr ValSerGly·
 151 GAAAGAGATA GAGTTTCTGC AAAATGGAAA ACATCATTAA CTGTATCTGG
     ·LeuValThr GlyIleAlaPhe TrpHisTyr MetTyrMet ArgGlyValTrp·
 201 TCTTGTTACT GGTATTGCTT TCTGGCATTA CATGTACATG AGAGGGGTAT
     · IleGluThr GlyAspSer ProThrValPhe ArgTyrIle AspTrpLeu
 251 GGATTGAAAC TGGTGATTCG CCAACTGTAT TTAGATACAT TGATTGGTTA
     LeuThrValPro LeuValIle CysGluPhe TyrLeuIleLeu AlaAlaAla·
 301 CTAACAGTTC CTCTAGTAAT ATGTGAATTC TACTTAATTC TTGCTGCTGC
     ·ThrAsnVal AlaGlySerLeu PheLysLys LeuLeuVal GlySerLeuVal·
 351 AACTAATGTT GCTGGATCAT TATTTAAGAA ATTACTAGTT GGTTCTCTTG
     · MetLeuVal PheGlyTyr MetGlyGluAla GlyIleMet AlaAlaTrp
 401 TTATGCTTGT GTTTGGTTAC ATGGGTGAAG CAGGAATCAT GGCTGCATGG
     ProAlaPheIle IleGlyCys LeuAlaTrp ValTyrMetIle TyrGluLeu·
 451 CCTGCATTCA TTATTGGGTG TTTAGCTTGG GTATACATGA TTTATGAATT
     ·TrpAlaGly GluGlyLysSer AlaCysAsn ThrAlaSer ProAlaValGln·
 501 ATGGGCTGGA GAAGGAAAAT CTGCATGTAA TACTGCAAGT CCTGCTGTGC
     · SerAlaTyr AsnThrMet MetTyrIleIle IlePheGly TrpAlaIle
 551 AATCAGCTTA CAACACGATG ATGTATATTA TCATCTTTGG TTGGGCGATT
     TyrProValGly TyrPheThr GlyTyrLeu MetGlyAspGly GlySerAla·
 601 TATCCTGTAG GTTATTTCAC AGGTTACCTG ATGGGTGACG GTGGATCAGC
     ·LeuAsnLeu AsnLeuIleTyr AsnLeuAla AspPheVal AsnLysIleLeu·
 651 TCTTAACTTA AACCTTATCT ATAACCTTGC TGACTTTGTT AACAAGATTC
     · PheGlyLeu IleIleTrp AsnValAlaVal LysGluSer SerAsnAla
 701 TATTTGGTTT AATTATATGG AATGTTGCTG TTAAAGAATC TTCTAATGCT
 751 A
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Figure 1-51

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    MetGlyLysLeu LeuLeuIle LeuGlySer ValIleAlaLeu ProThrPhe·
  1 ATGGGTAAAT TATTACTGAT ATTAGGTAGT GTTATTGCAC TTCCTACATT
    ·AlaAlaGly GlyGlyAspLeu AspAlaSer AspTyrThr GlyValSerPhe·
 51 TGCTGCAGGT GGTGGTGACC TTGATGCTAG TGATTACACT GGTGTTTCTT
    · TrpLeuVal ThrAlaAla LeuLeuAlaSer ThrValPhe PhePheVal
101 TTTGGTTAGT TACTGCTGCT TTATTAGCAT CTACTGTATT TTTCTTTGTT
    GluArgAspArg ValSerAla LysTrpLys ThrSerLeuThr ValProGly·
151 GAAAGAGATA GAGTTTCTGC AAAATGGAAA ACATCATTAA CTGTACCTGG
    ·LeuIleThr AspIleAlaPhe TrpHisTyr MetTyrMet ArgGlyValTrp·
201 TCTTATTACT GATATTGCTT TCTGGCATTA CATGTACATG AGAGGGGTAT
    · IleGluThr GlyAspSer ProThrValPhe ArgTyrIle AspTrpLeu
251 GGATTGAAAC TGGTGATTCG CCAACTGTAT TTAGATACAT TGATTGGTTA
    LeuThrValPro LeuGlnIle CysGluPhe TyrLeuIleLeu AlaAlaAla·
301 CTAACAGTTC CTCTACAAAT ATGTGAATTC TACTTAATTC TTGCTGCTGC
    ·ThrAsnVal AlaGlySerLeu PheLysLys LeuLeuVal GlySerLeuVal·
351 AACTAATGTT GCTGGATCAT TATTTAAGAA ATTACTAGTT GGTTCTCTTG
    · MetLeuVal PheGlyTyr MetGlyGluAla GlyIleMet AlaAlaTrp
401 TTATGCTTGT GTTTGGTTAC ATGGGTGAAG CAGGAATCAT GGCTGCATGG
    ProAlaPheIle IleGlyCys LeuAlaTrp ValTyrMetIle TyrGluLeu·
451 CCTGCATTCA TTATTGGGTG TTTAGCTTGG GTATACATGA TTTATGAATT
    ·TrpAlaGly GluGlyLysSer AlaCysAsn ThrAlaSer ProAlaValGln·
501 ATGGGCTGGA GAAGGAAAAT CTGCATGTAA TACTGCGAGT CCTGCTGTGC
    · SerAlaTyr AsnThrMet MetTyrIleIle IlePheGly TrpAlaIle
551 AATCAGCTTA CAACACAATG ATGTATATTA TCATCTTTGG TTGGGCGATT
    TyrProValGly TyrPheThr GlyTyrLeu MetGlyAspGly GlySerAla·
601 TATCCTGTAG GTTATTTCAC AGGTTACCTG ATGGGTGACG GTGGATCAGC
    ·LeuAsnLeu AsnLeuIleTyr AsnLeuAla AspPheVal AsnLysIleLeu·
651 TCTTAACTTA AACCTTATCT ATAACCTTGC TGACTTTGTT AACAAGATTC
    · PheGlyLeu IleIleTrp AsnValAlaVal LysGluSer SerAsnAla
701 TATTTGGTTT AATTATATGG AATGTTGCTG TTAAAGAATC TTCTAATGCT
751 A
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Figure 1-52

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    MetGlyLysLeu LeuLeuIle LeuGlySer ValIleAlaLeu ProThrPhe·
  1 ATGGGTAAAT TATTACTGAT ATTAGGTAGT GTTATTGCAC TTCCTACATT
    ·AlaAlaGly GlyGlyAspLeu AspAlaSer AspTyrThr GlyValSerPhe·
 51 TGCTGCAGGT GGTGGTGACC TTGATGCTAG TGATTACACT GGTGTTTCTT
    · TrpLeuVal ThrAlaAla LeuLeuAlaSer ThrValPhe PhePheVal
101 TTTGGTTAGT TACTGCTGCT TTATTAGCAT CTACTGTATT TTTCTTTGTT
    GluArgAspArg ValSerAla LysTrpLys ThrSerLeuThr ValProGly·
151 GAAAGAGATA GAGTTTCTGC AAAATGGAAA ACATCATTAA CTGTACCTGG
    ·LeuIleThr AspIleAlaPhe TrpHisTyr MetTyrMet ArgGlyValTrp·
201 TCTTATTACT GATATTGCTT TCTGGCATTA CATGTACATG AGAGGGGTAT
    · IleGluThr GlyAspSer ProThrValPhe ArgTyrIle AspTrpLeu
251 GGATTGAAAC TGGTGATTCG CCAACTGTAT TTAGATACAT TGATTGGTTA
    LeuThrValPro LeuGlnIle CysGluPhe TyrLeuIleLeu AlaAlaAla·
301 CTAACAGTTC CTCTACAAAT ATGTGAATTC TACTTAATTC TTGCTGCTGC
    ·ThrAsnVal AlaGlySerLeu PheLysLys LeuLeuVal GlySerLeuVal·
351 AACTAATGTT GCTGGATCAT TATTTAAGAA ATTACTAGTT GGTTCTCTTG
    · MetLeuVal PheGlyTyr MetGlyGluAla GlyIleMet AlaAlaTrp
401 TTATGCTTGT GTTTGGTTAC ATGGGTGAAG CAGGAATCAT GGCTGCATGG
    ProAlaPheIle IleGlyCys LeuAlaTrp ValTyrMetIle TyrGluLeu·
451 CCTGCATTCA TTATTGGGTG TTTAGCTTGG GTATACATGA TTTATGAATT
    ·TrpAlaGly GluGlyLysSer AlaCysAsn ThrAlaSer ProAlaValGln·
501 ATGGGCTGGA GAAGGAAAAT CTGCATGTAA TACTGCGAGT CCTGCTGTGC
    · SerAlaTyr AsnThrMet MetTyrIleIle IlePheGly TrpAlaIle
551 AATCAGCTTA CAACACAATG ATGTATATTA TCATCTTTGG TTGGGCGATT
    TyrProValGly TyrPheThr GlyTyrLeu MetGlyAspGly GlySerAla·
601 TATCCTGTAG GTTATTTCAC AGGTTACCTG ATGGGTGACG GTGGATCAGC
    ·LeuAsnLeu AsnLeuIleTyr AsnLeuAla AspPheVal AsnLysIleLeu·
651 TCTTAACTTA AACCTTATCT ATAACCTTGC TGACTTTGTT AACAAGATTC
    · PheGlyLeu IleIleTrp AsnValAlaVal LysGluSer SerAsn
701 TATTTGGTTT AATTATATGG AATGTTGCTG TTAAAGAATC TTCTAATT
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Figure 1-53

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    MetGlyLysLeu LeuLeuIle LeuGlySer ValIleAlaLeu ProThrPhe·
  1 ATGGGTAAAT TATTACTGAT ATTAGGTAGT GTTATTGCAC TTCCTACATT
    ·AlaAlaGly GlyGlyAspLeu AspAlaSer GlyTyrThr GlyValSerPhe·
 51 TGCTGCAGGT GGTGGTGACC TTGATGCTAG TGGTTACACT GGTGTTTCTT
    · TrpLeuVal ThrAlaAla LeuLeuAlaSer ThrValPhe PhePheVal
101 TTTGGTTAGT TACTGCTGCT TTATTAGCAT CTACTGTATT TTTCTTTGTT
    GluArgAspArg ValSerAla LysTrpLys ThrSerLeuThr ValProGly·
151 GAAAGAGATA GAGTTTCTGC AAAATGGAAA ACATCATTAA CTGTACCTGG
    ·LeuIleThr AspIleAlaPhe TrpHisTyr MetTyrMet ArgGlyValTrp·
201 TCTTATTACT GATATTGCTT TCTGGCATTA CATGTACATG AGAGGGGTAT
    · IleGluThr GlyAspSer ProThrValPhe ArgTyrIle AspTrpLeu
251 GGATTGAAAC TGGTGATTCG CCAACTGTAT TTAGATACAT TGATTGGTTA
    LeuThrValSer LeuGlnIle CysGluPhe TyrLeuIleLeu AlaAlaAla·
301 CTAACAGTTT CTCTACAAAT ATGTGAATTC TACTTAATTC TTGCTGCTGC
    ·ThrAsnVal AlaGlySerLeu PheLysLys LeuLeuVal GlySerLeuVal·
351 AACTAATGTT GCTGGATCAT TATTTAAGAA ATTACTAGTT GGTTCTCTTG
    · MetLeuVal PheGlyTyr MetGlyGluAla GlyIleMet AlaAlaTrp
401 TTATGCTTGT GTTTGGTTAC ATGGGTGAAG CAGGAATCAT GGCTGCATGG
    ProAlaPheIle IleGlyCys LeuAlaTrp ValTyrMetIle TyrGluLeu·
451 CCTGCATTCA TTATTGGGTG TTTAGCTTGG GTATACATGA TTTATGAATT
    ·TrpAlaGly GluGlyLysSer AlaCysAsn ThrAlaSer ProAlaValGln·
501 ATGGGCTGGA GAAGGAAAAT CTGCATGTAA TACTGCGAGT CCTGCTGTGC
    · SerAlaTyr AsnThrMet MetTyrIleIle IlePheGly TrpAlaIle
551 AATCAGCTTA CAACACAATG ATGTATATTA TCATCTTTGG TTGGGCGATT
    TyrProValGly TyrPheThr GlyTyrLeu MetGlyAspGly GlySerAla·
601 TATCCTGTAG GTTATTTCAC AGGTTACCTG ATGGGTGACG GTGGATCAGC
    ·LeuAsnLeu AsnLeuIleTyr AsnLeuAla AspPheVal AsnLysIleLeu·
651 TCTTAACTTA AACCTTATCT ATAACCTTGC TGACTTTGTT AACAAGATTC
    · PheGlyLeu IleIleTrp AsnValAlaVal LysGluSer SerAsnAla
701 TATTTGGTTT AATTATATGG AATGTTGCTG TTAAAGAATC TTCTAATGCT
751 A
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Figure 1-54

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    MetGlyLysLeu LeuLeuIle LeuGlySer ValIleAlaLeu ProThrPhe·
  1 ATGGGTAAAT TATTACTGAT ATTAGGTAGT GTTATTGCAC TTCCTACATT
    ·AlaAlaGly GlyGlyAspLeu AspAlaSer AspTyrThr GlyValSerPhe·
 51 TGCTGCAGGT GGTGGTGACC TTGATGCTAG TGATTACACT GGTGTTTCTT
    · TrpLeuVal ThrAlaAla LeuLeuAlaSer ThrValPhe PhePheVal
101 TTTGGTTAGT TACTGCTGCT TTATTAGCAT CTACTGTATT TTTCTTTGTT
    GluArgAspArg ValSerAla LysTrpLys ThrSerLeuThr ValProGly·
151 GAAAGAGATA GAGTTTCTGC AAAATGGAAA ACATCATTAA CTGTACCTGG
    ·LeuValThr GlyIleAlaPhe TrpHisTyr MetTyrMet ArgGlyValTrp·
201 TCTTGTTACT GGTATTGCTT TCTGGCATTA CATGTACATG AGAGGGGTAT
    · IleGluThr GlyAspSer ProAlaValPhe ArgTyrIle AspTrpLeu
251 GGATTGAAAC TGGTGATTCG CCAGCTGTAT TTAGATACAT TGATTGGTTA
    LeuThrValPro LeuGluIle CysGluPhe TyrLeuIleLeu AlaAlaAla·
301 CTAACAGTTC CTCTAGAGAT ATGTGAATTC TACTTGATTC TTGCTGCTGC
    ·ThrAsnVal AlaGlySerLeu PheLysLys LeuLeuVal GlySerLeuVal·
351 AACTAATGTT GCTGGATCAT TATTTAAGAA ATTACTAGTT GGTTCTCTTG
    · MetLeuVal PheGlyTyr MetGlyGluAla GlyIleMet AlaAlaTrp
401 TTATGCTTGT GTTTGGTTAC ATGGGTGAAG CAGGAATCAT GGCTGCATGG
    ProAlaPheIle IleGlyCys LeuAlaTrp ValTyrMetIle TyrGluLeu·
451 CCTGCATTCA TTATTGGGTG TTTAGCTTGG GTATACATGA TTTATGAATT
    ·TrpAlaGly GluGlyLysSer AlaCysAsn ThrAlaSer ProAlaValGln·
501 ATGGGCTGGA GAAGGAAAAT CTGCATGTAA TACTGCAAGT CCTGCTGTGC
    · SerAlaTyr AsnThrMet MetTyrIleIle IlePheGly TrpAlaIle
551 AATCAGCTTA CAACACAATG ATGTATATTA TCATCTTTGG TTGGGCGATT
    TyrProValGly TyrPheThr GlyTyrLeu MetGlyAspGly GlySerAla·
601 TATCCTGTAG GTTATTTCAC AGGTTACCTG ATGGGTGACG GTGGATCAGC
    ·LeuAsnLeu AsnLeuIleTyr AsnLeuAla AspPheVal AsnLysIleLeu·
651 TCTTAACTTA AACCTTATCT ATAACCTTGC TGACTTTGTT AACAAGATTC
    · PheGlyLeu IleIleTrp AsnValAlaVal LysGluSer SerAsnAla
701 TATTTGGTTT AATTATATGG AATGTTGCTG TTAAAGAATC TTCTAATGCT
751 A
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Figure 1-55

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    MetGlyLysLeu LeuValMet LeuGlySer ValIleAlaLeu ProThrPhe·
  1 ATGGGTAAAT TATTAGTGAT GTTAGGTAGT GTTATTGCGC TTCCAACATT
    ·AlaAlaGly GlyGlyAspLeu AspAlaSer AspTyrThr GlyValSerPhe·
 51 TGCCGCTGGT GGTGGTGACC TGGATGCTAG TGACTACACT GGTGTATCTT
    · TrpLeuVal ThrAlaAla LeuLeuAlaSer ThrValPhe PhePheVal
101 TCTGGTTAGT TACTGCTGCT CTATTAGCAT CTACTGTATT TTTCTTTGTT
    GluArgAspArg ValSerAla LysTrpLys ThrSerLeuThr ValSerGly·
151 GAAAGAGACA GAGTTTCTGC TAAATGGAAA ACATCATTAA CAGTATCTGG
    ·LeuValThr GlyIleAlaPhe TrpHisTyr MetTyrMet ArgGlyValTrp·
201 TTTAGTTACT GGTATTGCTT TTTGGCATTA CATGTACATG AGAGGTGTAT
    · IleGluThr GlyAspSer ProThrValPhe ArgTyrIle AspTrpLeu
251 GGATTGAAAC TGGTGATTCA CCAACTGTTT TTAGATACAT CGACTGGTTG
    LeuThrValPro LeuLeuIle CysGluPhe TyrLeuIleLeu AlaAlaAla·
301 CTAACTGTGC CTTTACTAAT TTGTGAGTTC TACTTAATAC TAGCAGCAGC
    ·ThrAsnVal AlaGlySerLeu PheLysLys LeuLeuVal GlySerLeuVal·
351 TACTAACGTT GCTGGTTCTT TATTCAAGAA ATTACTAGTT GGTTCTCTTG
    · MetLeuVal PheGlyTyr MetGlyGluAla GlyIleMet AlaAlaTrp
401 TTATGCTTGT GTTTGGTTAC ATGGGTGAAG CAGGAATTAT GGCAGCCTGG
    ProAlaPheIle IleGlyCys LeuAlaTrp ValTyrMetIle TyrGluLeu·
451 CCTGCATTCA TTATAGGATG TTTAGCATGG GTATACATGA TTTATGAATT
    ·TrpAlaGly GluGlyLysSer AlaCysAsn ThrAlaSer ProAlaValGln·
501 ATGGGCTGGA GAAGGAAAGT CTGCATGTAA CACTGCAAGT CCTGCAGTTC
    · SerAlaTyr AsnThrMet MetTyrIleIle IlePheGly TrpAlaIle
551 AGTCAGCTTA CAACACAATG ATGTATATCA TCATCTTTGG TTGGGCTATT
    TyrProValGly TyrPheThr GlyTyrLeu MetGlyAspGly GlySerAla·
601 TACCCTGTAG GTTATTTCAC TGGTTACCTA ATGGGTGACG GTGGATCAGC
    ·LeuAsnLeu AsnLeuIleTyr AsnLeuAla AspPheVal AsnLysIleLeu·
651 TCTTAACTTA AACCTTATCT ATAACCTTGC TGACTTTGTT AACAAGATTC
    · PheGlyLeu IleIleTrp AsnValAlaVal LysGluSer SerAsnAla
701 TATTTGGTTT AATTATATGG AATGTTGCTG TTAAAGAATC TTCTAATGCT
751 A
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Figure 1-56

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    MetGlyLysArg LeuValIle LeuGlySer ValIleAlaLeu ProThrPhe·
  1 ATGGGTAAAA GATTAGTGAT ATTAGGTAGT GTTATTGCGC TTCCAACATT
    ·AlaAlaGly GlyGlyAspLeu AspAlaSer AspTyrThr GlyValSerPhe·
 51 TGCCGCTGGT GGTGGTGACC TGGATGCTAG TGACTACACT GGTGTATCTT
    · TrpLeuVal ThrAlaAla LeuLeuAlaSer ThrValPhe PhePheVal
101 TCTGGTTAGT TACTGCTGCT CTATTAGCAT CTACTGTATT TTTCTTTGTT
    GluArgAspArg ValSerAla LysTrpLys ThrSerLeuThr ValSerGly·
151 GAAAGAGACA GAGTTTCTGC TAAATGGAAA ACATCATTAA CAGTATCTGG
    ·LeuValThr GlyIleAlaPhe TrpHisTyr MetTyrMet ArgGlyValTrp·
201 TTTAGTTACT GGTATTGCTT TTTGGCATTA CATGTACATG AGAGGTGTAT
    · IleGluThr GlyAspSer ProThrValPhe ArgTyrIle AspTrpLeu
251 GGATTGAAAC TGGTGATTCA CCAACTGTTT TTAGATACAT CGACTGGTTG
    LeuThrValPro LeuLeuIle CysGluPhe TyrLeuIleLeu AlaAlaAla·
301 CTAACTGTGC CTTTACTAAT TTGTGAGTTC TACTTAATAC TAGCAGCAGC
    ·ThrAsnVal AlaGlySerLeu PheLysLys LeuLeuVal GlySerLeuVal·
351 TACTAACGTT GCTGGTTCTT TATTCAAGAA ATTACTAGTT GGTTCTCTTG
    · MetLeuVal PheGlyTyr MetGlyGluAla GlyIleMet AlaAlaTrp
401 TTATGCTTGT GTTTGGTTAC ATGGGTGAAG CAGGAATTAT GGCAGCCTGG
    ProAlaPheIle IleGlyCys LeuAlaTrp ValTyrMetIle TyrGluLeu·
451 CCTGCATTCA TTATAGGATG TTTAGCATGG GTATACATGA TTTATGAATT
    ·TrpAlaGly GluGlyLysSer AlaCysAsn ThrAlaSer ProAlaValGln·
501 ATGGGCTGGA GAAGGAAAGT CTGCATGTAA CACTGCAAGT CCTGCAGTTC
    · SerAlaTyr AsnThrMet MetTyrIleIle IlePheGly TrpAlaIle
551 AGTCAGCTTA CAACACAATG ATGTATATCA TCATCTTTGG TTGGGCTATT
    TyrLeuValGly TyrPheThr GlyTyrLeu MetGlyAspGly GlySerAla·
601 TACCTTGTAG GTTATTTCAC TGGTTACCTA ATGGGTGACG GTGGATCAGC
    ·LeuAsnLeu AsnLeuIleTyr AsnLeuAla AspPheVal AsnLysIleLeu·
651 TCTTAACTTA AACCTTATCT ATAACCTTGC TGACTTTGTT AACAAGATTC
    · PheGlyLeu IleIleTrp AsnValAlaVal LysGluSer SerAsnAla
701 TATTTGGTTT AATTATATGG AATGTTGCTG TTAAAGAATC TTCTAATGCT
751 A
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Figure 1-57

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    MetGlyLysAla LeuLeuMet LeuGlySer ValIleAlaLeu ProThrPhe·
  1 ATGGGTAAAG CATTACTGAT GTTAGGTAGT GTTATTGCGC TTCCAACATT
    ·AlaAlaGly GlyGlyAspLeu AspAlaSer AspTyrThr GlyValSerPhe·
 51 TGCCGCTGGT GGTGGTGACC TGGATGCTAG TGACTACACT GGTGTATCTT
    · TrpLeuVal ThrAlaAla ProLeuAlaSer ThrValPhe PhePheVal
101 TCTGGTTAGT TACTGCTGCT CCATTAGCAT CTACTGTATT TTTCTTTGTT
    GluArgAspArg ValSerAla LysTrpLys ThrSerLeuThr ValSerGly·
151 GAAAGAGACA GAGTTTCTGC TAAATGGAAA ACATCATTAA CAGTATCTGG
    ·LeuValThr GlyIleAlaPhe TrpHisTyr MetTyrMet ArgGlyValTrp·
201 TTTAGTTACT GGTATTGCTT TTTGGCATTA CATGTACATG AGAGGTGTAT
    · IleGluThr GlyAspSer ProThrValPhe ArgTyrIle AspTrpLeu
251 GGATTGAAAC TGGTGATTCA CCAACTGTTT TTAGATACAT CGACTGGTTG
    LeuThrValPro LeuLeuIle CysGluPhe TyrLeuIleLeu AlaAlaAla·
301 CTAACTGTGC CTTTACTAAT TTGTGAGTTC TACTTAATAC TAGCAGCAGC
    ·ThrAsnVal AlaGlySerLeu PheLysLys LeuLeuVal GlySerLeuVal·
351 TACTAACGTT GCTGGTTCTT TATTCAAGAA ATTACTAGTT GGTTCTCTTG
    · MetLeuVal PheGlyTyr MetGlyGluAla GlyIleMet AlaAlaTrp
401 TTATGCTTGT GTTTGGTTAC ATGGGTGAAG CAGGAATTAT GGCAGCCTGG
    ProAlaPheIle IleGlyCys LeuAlaTrp ValTyrMetIle TyrGluLeu·
451 CCTGCATTCA TTATAGGATG TTTAGCATGG GTATACATGA TTTATGAATT
    ·TrpAlaGly GluGlyLysSer AlaCysAsn ThrAlaSer ProAlaValGln·
501 ATGGGCTGGA GAAGGAAAGT CTGCATGTAA CACTGCAAGT CCTGCAGTTC
    · SerAlaTyr AsnThrMet MetTyrIleIle IlePheGly TrpAlaIle
551 AGTCAGCTTA CAACACAATG ATGTATATCA TCATCTTTGG TTGGGCTATT
    TyrLeuValGly TyrPheThr GlyTyrLeu MetGlyAspGly GlySerAla·
601 TACCTTGTAG GTTATTTCAC TGGTTACCTA ATGGGTGACG GTGGATCAGC
    ·LeuAsnLeu AsnLeuIleTyr AsnLeuAla AspPheVal AsnLysIleLeu·
651 TCTTAACTTA AACCTTATCT ATAACCTTGC TGACTTTGTT AACAAGATTC
    · PheGlyLeu IleIleArg AsnValAlaVal LysGluSer SerAsnAla
701 TATTTGGTTT AATTATAAGG AATGTTGCTG TTAAAGAATC TTCTAATGCT
751 A
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Figure 1-58

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    MetGlyLysGly LeuLeuMet LeuGlySer ValIleAlaLeu ProSerPhe·
  1 ATGGGTAAAG GATTACTGAT GTTAGGTAGT GTTATTGCGC TTCCATCTTT
    ·AlaAlaGly GlyGlyAspLeu AspAlaSer AspTyrThr GlyValSerPhe·
 51 TGCTGCTGGC GGTGGCGATC TTGATGCTAG TGACTATACA GGTGTTTCAT
    · TrpLeuVal ThrAlaAla LeuLeuAlaSer ThrValPhe PhePheVal
101 TCTGGTTGGT TACTGCTGCA TTATTAGCCT CAACTGTTTT CTTCTTTGTT
    GluArgAspArg ValAlaAla LysTrpLys ThrSerLeuThr ValSerGly·
151 GAAAGAGACA GAGTTGCTGC AAAATGGAAA ACATCGTTAA CAGTATCTGG
    ·LeuValThr GlyIleAlaPhe TrpHisTyr MetTyrMet ArgGlyValTrp·
201 TCTTGTTACT GGTATTGCTT TTTGGCATTA CATGTACATG AGAGGGGTTT
    · ValGluThr GlyGluSer ProThrValPhe ArgTyrIle AspTrpLeu
251 GGGTAGAGAC TGGTGAATCA CCAACTGTAT TCAGATATAT TGACTGGCTA
    LeuThrValPro LeuLeuIle CysGluPhe TyrLeuIleLeu AlaAlaAla·
301 CTAACAGTAC CATTATTAAT ATGTGAGTTC TACTTAATAC TTGCAGCTGC
    ·ThrAsnVal AlaGlySerLeu PheLysLys LeuLeuIle GlySerLeuVal·
351 AACTAATGTT GCTGGTTCTT TATTTAAAAA GCTATTAATT GGTTCTCTTG
    · MetLeuVal PheGlyTyr MetGlyGluAla GlyIleMet AlaAlaTrp
401 TTATGCTTGT GTTTGGTTAC ATGGGTGAAG CAGGAATCAT GGCAGCTTGG
    ProAlaPheIle IleGlyCys LeuAlaTrp PheTyrMetIle TyrGluLeu·
451 CCTGCATTCA TTATTGGGTG CTTAGCTTGG TTCTACATGA TTTATGAACT
    ·TrpAlaGly GluGlyLysSer AlaCysAsn ThrAlaSer ProAlaValGln·
501 ATGGGCTGGT GAAGGAAAGT CTGCTTGTAA TACTGCAAGT CCAGCTGTTC
    · SerAlaTyr AsnThrMet MetTyrIleIle IleIleGly TrpAlaIle
551 AATCAGCATA CAACACGATG ATGTATATTA TTATCATTGG TTGGGCTATT
    TyrProValGly TyrPheThr GlyTyrLeu MetGlyAspGly GlySerAla·
601 TACCCTGTAG GTTACTTTAC TGGTTACCTA ATGGGTGACG GCGGATCTGC
    ·LeuAsnLeu AsnLeuIleTyr AsnLeuAla AspPheVal AsnLysIleLeu·
651 CTTAAACTTA AACCTAATTT ATAACCTTGC TGACTTCGTT AACAAGATTC
    · PheGlyLeu IleIleTrp HisValAlaVal LysGluSer SerAsnAla
701 TATTTGGTTT AATTATCTGG CATGTTGCTG TTAAAGAATC TTCTAATGCT
751 A
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Figure 1-59

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    MetGlyLysLeu LeuLeuIle LeuGlySer ValIleAlaLeu ProSerPhe·
  1 ATGGGTAAAT TATTATTGAT CTTAGGTAGT GTTATTGCGC TTCCTTCATT
    ·AlaAlaGly GlyGlyAspLeu AspAlaGly AspTyrThr GlyValSerPhe·
 51 TGCAGCTGGT GGCGGCGACC TTGATGCTGG TGATTACACT GGTGTTAGTT
    · TrpLeuVal ThrAlaAla LeuLeuAlaSer ThrValPhe PhePheIle
101 TTTGGTTAGT GACTGCAGCT CTTTTGGCTT CAACTGTATT TTTCTTTATT
    GluArgAspArg ValAlaAla LysTrpLys ThrSerLeuThr ValSerGly·
151 GAAAGAGATA GAGTTGCTGC TAAATGGAAG ACATCTTTAA CAGTATCTGG
    ·LeuValThr GlyIleAlaPhe TrpHisTyr MetTyrMet ArgGlyValTrp·
201 TCTAGTTACT GGTATTGCTT TCTGGCATTA CATGTACATG AGAGGTGTTT
    · ValGluThr GlyGluSer ProThrValPhe ArgTyrIle AspTrpLeu
251 GGGTCGAAAC TGGTGAATCA CCAACTGTAT TCAGATATAT TGACTGGCTA
    LeuThrValPro LeuLeuIle CysGluPhe TyrLeuIleLeu AlaAlaAla·
301 CTTACAGTGC CTTTATTAAT ATGTGAGTTT TATCTGATTC TTGCAGCTGC
    ·ThrAsnVal AlaGlySerLeu PheLysLys LeuLeuVal GlySerLeuVal·
351 AACTAATGTT GCTGGTTCTT TATTTAAGAA GCTTTTAGTT GGTTCTCTTG
    · MetLeuVal PheGlyTyr MetGlyGluAla GlyIleMet AlaAlaTrp
401 TAATGCTTGT ATTTGGTTAT ATGGGCGAAG CAGGAATTAT GGCAGCTTGG
    ProAlaPheIle ValGlyCys LeuAlaTrp PheTyrMetIle TyrGluLeu·
451 CCTGCATTCA TTGTTGGATG TTTAGCTTGG TTCTATATGA TTTATGAGCT
    ·TrpAlaGly GluGlyLysSer AlaCysAsn ThrAlaSer ProAlaValGln·
501 ATGGGCTGGA GAAGGAAAAT CTGCATGCAA TACTGCAAGT CCAGCTGTTC
    · SerAlaTyr AsnThrMet MetTyrIleIle IleIleGly TrpAlaIle
551 AATCAGCATA CAACACAATG ATGTATATTA TTATCATTGG TTGGGCTATT
    TyrProLeuGly TyrPheThr GlyTyrLeu MetGlyAspGly GlySerAla·
601 TATCCTCTTG GGTACTTTAC TGGTTACCTA ATGGGTGACG GCGGATCAGC
    ·LeuAsnLeu AsnLeuIleTyr AsnLeuAla AspPheVal AsnLysIleLeu·
651 CTTAAACTTA AACCTAATTT ATAACCTTGC TGACTTTGTT AACAAGATTC
    · PheGlyLeu IleIleTrp HisValAlaVal LysGluSer SerAsnAla
701 TATTTGGTTT AATCATATGG CATGTCGCTG TTAAAGAATC TTCTAATGCT
751 A
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Figure 1-60

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    MetGlyLysGln LeuLeuIle LeuGlySer ValIleAlaLeu ProSerPhe·
  1 ATGGGTAAAC AATTACTGAT CTTAGGTAGT GTTATTGCGC TTCCATCTTT
    ·AlaAlaGly GlyGlyAspLeu AspAlaSer AspTyrThr GlyValSerPhe·
 51 TGCTGCTGGC GGTGGCGATC TTGATGCTAG TGACTATACA GGTGTTTCAT
    · TrpLeuVal ThrAlaAla LeuLeuAlaSer ThrValPhe PhePheIle
101 TCTGGTTAGT TACTGCTGCA TTATTAGCCT CAACTGTTTT CTTTTTTATT
    GluArgAspArg ValAlaAla LysTrpLys ThrSerLeuThr ValSerGly·
151 GAAAGAGACA GAGTTGCTGC AAAATGGAAA ACGTCGTTAA CAGTATCTGG
    ·LeuValThr GlyIleAlaPhe TrpHisTyr LeuTyrMet ArgGlyValTrp·
201 CCTTGTTACT GGTATTGCTT TTTGGCACTA CTTGTATATG AGAGGAGTTT
    · ValGluThr GlyGluSer ProThrValPhe ArgTyrIle AspTrpLeu
251 GGGTAGAGAC TGGTGAATCA CCAACTGTAT TCAGATATAT TGACTGGTTA
    LeuThrValPro LeuLeuIle CysGluPhe TyrLeuIleLeu AlaAlaAla·
301 CTAACAGTAC CATTATTAAT ATGTGAGTTT TACTTAATAC TTGCAGCTGC
    ·ThrAsnVal AlaGlySerLeu PheLysLys LeuLeuIle GlySerLeuVal·
351 AACTAATGTT GCTGGTTCTT TATTTAAAAA GCTATTAATT GGTTCTCTTG
    · MetLeuVal PheGlyTyr MetGlyGluAla GlyIleMet AlaAlaTrp
401 TGATGCTTGT GTTTGGTTAC ATGGGTGAAG CAGGAATCAT GGCGGCTTGG
    ProAlaPheIle IleGlyCys LeuAlaTrp ValTyrMetIle TyrGluLeu·
451 CCTGCATTCA TTATTGGGTG CTTAGCTTGG GTCTATATGA TATATGAGCT
    ·TrpAlaGly GluGlyLysSer AlaCysAsn ThrAlaSer ProAlaValGln·
501 ATGGGCTGGT GAAGGAAAAT CTGCATGTAA TACTGCAAGT CCAGCTGTTC
    · SerAlaTyr AsnThrMet MetTyrIleIle IlePheGly TrpAlaIle
551 AATCAGCATA CAACACAATG ATGTATATTA TTATCTTTGG TTGGGCTATT
    TyrProValGly TyrPheThr GlyTyrLeu MetGlyAspGly GlySerAla·
601 TACCCTGTAG GTTACTTTAC TGGTTACCTA ATGGGTGACG GCGGATCTGC
    ·LeuAsnLeu AsnLeuIleTyr AsnLeuAla AspPheVal AsnLysIleLeu·
651 CTTAAACTTA AACCTTATCT ATAACCTTGC TGACTTCGTT AACAAGATTC
    · PheGlyLeu IleIleTrp HisValAlaVal LysGluSer SerAsnAla
701 TATTTGGTTT AATTATCTGG CATGTTGCTG TTAAAGAATC TTCTAATGCT
751 A
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Figure 1-61

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    MetGlyLysLeu LeuMetMet LeuGlySer ValIleAlaLeu ProSerPhe·
  1 ATGGGTAAAT TATTAATGAT GTTAGGTAGT GTTATTGCGC TTCCTTCATT
    ·AlaAlaSer GlyGlyAspLeu AspAlaSer AspTyrThr GlyValSerPhe·
 51 TGCGGCAAGT GGTGGCGATT TGGATGCTAG TGATTACACT GGTGTTTCAT
    · GlyLeuVal ThrAlaAla LeuLeuAlaSer ThrValPhe PhePheVal
101 TTGGGTTGGT GACTGCAGCT TTATTAGCTT CAACTGTATT TTTCTTTGTT
    GluArgAspArg ValSerAla LysTrpLys ThrSerLeuThr ValSerGly·
151 GAAAGAGATA GAGTTTCTGC TAAATGGAAG ACATCTTTGA CAGTATCAGG
    ·LeuValThr GlyIleAlaPhe TrpHisTyr LeuTyrMet ArgGlyValTrp·
201 TTTAGTTACT GGTATTGCTT TTTGGCATTA CTTATATATG AGAGGTGTAT
    · ValGluThr GlyGluThr ProThrValPhe ArgTyrIle AspTrpLeu
251 GGGTTGAAAC TGGTGAAACT CCAACAGTAT TTAGATATAT TGATTGGTTA
    LeuThrValPro LeuLeuIle CysGluPhe TyrLeuIleLeu AlaAlaAla·
301 TTAACTGTTC CATTACTAAT CTGCGAGTTT TATTTAATTC TAGCTGCTGC
    ·ThrAsnVal AlaGlySerLeu PheLysLys LeuLeuVal GlySerLeuVal·
351 AACTAACGTA GCTGGTTCAT TATTTAAGAA ACTACTTGTT GGTTCACTTG
    · MetLeuVal PheGlyTyr MetGlyGluAla GlyIleMet AlaAlaLeu
401 TAATGCTTGT GTTTGGATAC ATGGGTGAAG CAGGAATCAT GGCAGCTTTG
    ProAlaPheIle IleGlyCys LeuAlaTrp IleTyrMetIle TyrGluLeu·
451 CCTGCATTCA TTATTGGGTG TTTGGCATGG ATATATATGA TTTATGAGCT
    ·TrpAlaGly GluGlyLysSer AlaCysAsn ThrAlaSer ProAlaValGln·
501 TTGGGCTGGA GAAGGGAAAT CTGCATGCAA TACTGCAAGT CCTGCCGTTC
    · SerAlaTyr AsnThrMet MetTyrIleIle IlePheGly TrpLeuIle
551 AATCAGCTTA CAACACCATG ATGTACATCA TCATTTTTGG TTGGTTAATC
    TyrProValGly TyrAlaSer GlyTyrLeu MetGlyAspGly GlySerAla·
601 TATCCAGTTG GTTATGCATC AGGCTATCTA ATGGGCGATG GCGGATCAGC
    ·MetAsnLeu AsnLeuIleTyr AsnLeuAla AspPheVal AsnLysIleLeu·
651 TATGAACTTA AACTTAATAT ATAACCTTGC TGACTTTGTT AACAAGATTC
    · PheGlyLeu IleIleTrp AsnValAlaVal LysGluSer SerAsnAla
701 TATTTGGTTT AATTATCTGG AATGTTGCTG TTAAAGAATC TTCTAATGCT
751 A
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Figure 1-62

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    MetGlyLysGly LeuLeuMet LeuGlySer ValIleAlaLeu ProSerPhe·
  1 ATGGGTAAAG GATTACTGAT GTTAGGTAGT GTTATTGCAC TTCCATCCTT
    ·AlaAlaGly GlyGlyAsnLeu AsnAlaAla AspValThr GlyValSerPhe·
 51 TGCAGCTGGT GGAGGCAACT TAAATGCAGC TGATGTAACT GGTGTATCTT
    · TrpLeuVal ThrAlaAla LeuLeuAlaSer ThrValPhe PhePheIle
101 TTTGGCTAGT TACTGCCGCT TTACTTGCTT CAACAGTATT CTTTTTTATT
    GluArgAspArg ValSerAla LysTrpLys ThrSerLeuThr ValSerGly·
151 GAAAGAGATA GAGTTTCTGC AAAATGGAAG ACATCACTAA CAGTATCTGG
    ·LeuValThr GlyIleAlaPhe TrpHisTyr LeuTyrMet ArgGlyValTrp·
201 TTTAGTTACT GGTATTGCTT TTTGGCATTA CCTTTACATG AGAGGTGTTT
    · ValAspSer TrpAsnPro GluThrGlyMet GlyGluSer ProThrGlu
251 GGGTTGATTC TTGGAATCCT GAAACAGGAA TGGGAGAATC TCCAACTGAA
    PheArgTyrIle AspTrpLeu LeuThrVal ProLeuLeuIle CysGluPhe·
301 TTTAGATATA TTGATTGGTT ACTAACAGTA CCTTTATTAA TTTGTGAGTT
    ·TyrLeuIle LeuAlaAlaAla ThrAsnVal AlaGlySer LeuPheLysLys·
351 TTATCTAATA TTAGCTGCTG CAACAAATGT TGCTGGTTCA TTATTCAAAA
    · LeuLeuVal GlySerLeu ValMetLeuIle AlaGlyTyr MetGlyGlu
401 AATTATTAGT TGGTTCATTG GTCATGCTTA TTGCAGGATA CATGGGTGAA
    SerGlyAsnAla AsnValMet IleAlaPhe ValValGlyCys LeuAlaTrp·
451 TCTGGTAATG CCAATGTGAT GATTGCATTC GTAGTTGGAT GCTTAGCATG
    ·LeuTyrMet IleTyrGluLeu TrpAlaGly GluGlyLys AlaAlaCysAsn·
501 GTTGTATATG ATATATGAAT TGTGGGCTGG TGAAGGTAAA GCAGCTTGCA
    · ThrAlaSer ProAlaVal GlnSerAlaTyr AsnThrMet MetTrpIle
551 ATACAGCAAG CCCTGCTGTT CAATCAGCAT ACAATACAAT GATGTGGATC
    IleIleValGly TrpAlaIle TyrProAla GlyTyrAlaAla GlyTyrLeu·
601 ATTATTGTAG GTTGGGCTAT ATATCCTGCT GGATATGCTG CTGGCTATTT
    ·MetGlyGly GluSerValTyr AlaSerAsn LeuAsnLeu IleTyrAsnLeu·
651 GATGGGTGGA GAAAGCGTTT ATGCTTCTAA CCTTAACCTG ATATATAACC
    · AlaAspPhe ValAsnLys IleLeuPheGly LeuIleIle TrpHisVal
701 TTGCTGACTT TGTTAACAAG ATTTTATTTG GTTTAATCAT TTGGCATGTT
    AlaValLysGlu SerSerAsn Ala
751 GCTGTTAAAG AATCTTCTAA TGCTA
```

Figure 1-63

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    MetGlyLysLeu LeuValMet LeuGlySer ValIleAlaLeu ProSerPhe·
  1 ATGGGTAAAT TATTAGTGAT GTTAGGTAGT GTTATTGCAC TTCCATCCTT
    ·AlaAlaGly GlyGlyAsnLeu AspAlaAla AspValThr GlyValSerPhe·
 51 TGCAGCTGGT GGAGGTAACT TAGATGCAGC TGATGTAACT GGTGTATCTT
    · TrpLeuVal ThrAlaAla LeuLeuAlaSer ThrValPhe PhePheIle
101 TTTGGCTAGT TACTGCGGCT TTACTTGCTT CAACAGTATT CTTTTTTATT
    GluArgAspArg ValSerAla LysTrpLys ThrSerLeuThr ValSerGly·
151 GAAAGAGATA GAGTTTCTGC AAAATGGAAG ACATCACTAA CAGTATCTGG
    ·LeuValThr GlyIleAlaPhe TrpHisTyr LeuTyrMet ArgGlyValTrp·
201 TTTAGTTACT GGTATTGCAT TTTGGCATTA CCTTTATATG AGAGGCGTTT
    · ValAspSer TrpThrGly ProGlyThrGly GluSerPro ThrGluPhe
251 GGGTTGATTC TTGGACTGGT CCAGGAACCG GAGAATCTCC AACTGAATTT
    ArgTyrIleAsp TrpLeuLeu ThrValPro LeuLeuIleCys GluPheTyr·
301 AGATATATTG ATTGGTTACT AACAGTACCT TTATTAATTT GTGAGTTTTA
    ·LeuIleLeu AlaAlaAlaThr AsnValAla GlySerLeu PheLysLysLeu·
351 TCTAATATTA GCTGCTGCAA CAAATGTTGC TGGTTCATTA TTCAAAAAAT
    · LeuValGly SerLeuVal MetLeuIleAla GlyTyrMet GlyGluSer
401 TATTAGTTGG TTCATTGGTC ATGCTTATTG CAGGATACAT GGGTGAATCT
    GlyAsnAlaAsn ValMetIle AlaPheVal ValGlyCysLeu AlaTrpLeu·
451 GGTAATGCCA ATGTGATGAT TGCATTCGTA GTTGGATGCT TAGCATGGTT
    ·TyrMetIle TyrGluLeuTrp AlaGlyGlu GlyLysAla AlaCysAsnThr·
501 GTATATGATA TATGAATTGT GGGCTGGTGA AGGTAAAGCA GCTTGCAATA
    · AlaSerPro AlaValGln SerAlaTyrAsn ThrMetMet TrpIleIle
551 CAGCAAGCCC TGCTGTTCAA TCAGCATACA ATACAATGAT GTGGATCATT
    IleValGlyTrp AlaIleTyr ProAlaGly TyrAlaAlaGly TyrLeuMet·
601 ATTGTAGGTT GGGCTATATA TCCTGCTGGA TATGCTGCTG GCTATTTGAT
    ·GlyGlyGlu SerValTyrAla SerAsnLeu AsnLeuIle TyrAsnLeuAla·
651 GGGTGGAGAA AGCGTTTATG CTTCTAACCT TAACCTGATA TATAACCTTG
    · AspPheVal AsnLysIle LeuPheGlyLeu IleIleTrp HisValAla
701 CTGACTTTGT TAACAAGATT TTATTTGGTT TAATCATTTG GCATGTTGCT
    ValLysGluSer SerAsnAla
751 GTTAAAGAAT CTTCTAATGC TA
```

Figure 1-64

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    MetGlyLysLeu LeuValMet LeuGlyGly ValIleAlaLeu ProSerPhe·
  1 ATGGGTAAAT TATTAGTGAT GTTAGGTGGT GTTATTGCAC TTCCTTCTTT
    ·AlaAlaGly GlyGlyAspLeu AspIleGly AspSerVal GlyValSerPhe·
 51 TGCTGCTGGT GGTGGTGATC TAGATATAGG AGACTCCGTT GGAGTTTCAT
    · TrpLeuVal ThrAlaAla MetLeuAlaAla ThrValPhe PhePheVal
101 TCTGGCTTGT TACTGCTGCT ATGTTAGCTG CTACTGTTTT CTTTTTTGTT
    GluArgAspGln ValSerAla LysTrpLys ThrSerLeuThr ValSerGly·
151 GAAAGAGACC AAGTAAGCGC AAAGTGGAAA ACATCATTAA CAGTATCAGG
    ·LeuIleThr GlyIleAlaPhe TrpHisTyr LeuTyrMet ArgGlyValTrp·
201 TTTAATTACT GGTATTGCTT TTTGGCATTA TCTTTACATG AGAGGTGTAT
    · IleAspThr GlyGlySer ProThrValPhe ArgTyrIle AspTrpLeu
251 GGATAGATAC AGGTGGAAGC CCAACAGTAT TTAGATATAT TGATTGGTTG
    LeuThrValPro LeuGlnMet ValGluPhe TyrLeuIleLeu AlaAlaCys·
301 CTAACTGTTC CATTACAAAT GGTTGAGTTT TATTTAATTC TTGCAGCTTG
    ·ThrAsnVal AlaGlySerLeu PheLysLys LeuLeuVal GlySerLeuVal·
351 TACTAATGTA GCTGGTTCAT TATTTAAGAA ACTGCTTGTT GGTTCATTAG
    · MetLeuGly AlaGlyPhe AlaGlyGluAla GlyLeuAla ProAlaLeu
401 TAATGTTAGG TGCTGGATTT GCTGGTGAAG CTGGACTAGC TCCTGCATTG
    ProAlaPheIle LeuGlyMet AlaGlyTrp ValTyrMetIle TyrGluLeu·
451 CCTGCTTTCA TACTTGGTAT GGCTGGATGG GTATACATGA TATATGAGCT
    ·TyrMetGly GluGlyLysAla AlaValSer ThrAlaSer ProAlaValAsn·
501 GTATATGGGT GAAGGTAAAG CTGCGGTGAG TACTGCTAGT CCTGCCGTAA
    · SerAlaTyr AsnAlaMet MetMetIleIle ValPheGly TrpSerIle
551 ATTCTGCTTA CAATGCAATG ATGATGATTA TAGTTTTTGG TTGGTCTATT
    TyrProLeuGly TyrValAla GlyTyrLeu MetGlyAlaVal AspProSer·
601 TATCCACTGG GATATGTTGC TGGCTATTTA ATGGGTGCAG TAGATCCAAG
    ·ThrLeuAsn LeuIleTyrAsn LeuAlaAsp PheIleAsn LysIleLeuPhe·
651 TACATTAAAT CTAATATACA ACCTTGCTGA TTTTATTAAT AAGATTTTAT
    · GlyLeuIle IleTrpHis ValAlaValLys GluSerSer AsnAla
701 TCGGTTTAAT AATCTGGCAT GTTGCTGTTA AAGAATCTTC TAATGCTA
```

Figure 1-65

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    MetGlyLysLeu LeuMetIle LeuGlyGly ValIleAlaLeu ProSerPhe·
  1 ATGGGTAAAT TATTAATGAT CTTAGGTGGT GTTATTGCAC TTCCTTCTTT
    ·AlaAlaGly GlyGlyAspLeu AspIleGly AspSerVal GlyValSerPhe·
 51 TGCTGCTGGT GGTGGTGATC TAGATATAGG AGACTCTGTT GGAGTTTCAT
    · TrpLeuVal ThrAlaAla MetLeuAlaAla ThrValPhe PhePheVal
101 TCTGGCTTGT TACTGCTGCT ATGTTAGCTG CTACTGTTTT CTTTTTTGTT
    GluArgAspGln ValSerAla LysTrpLys ThrSerLeuThr ValSerGly·
151 GAAAGAGACC AAGTAAGCGC AAAGTGGAAA ACATCATTAA CAGTATCAGG
    ·LeuIleThr GlyIleAlaPhe TrpHisTyr LeuTyrMet ArgGlyValTrp·
201 TTTAATTACT GGTATTGCTT TTTGGCATTA TCTTTACATG AGAGGTGTAT
    · IleAspThr GlyGlySer ProThrValPhe ArgTyrIle AspTrpLeu
251 GGATAGATAC AGGTGGAAGC CCAACAGTAT TTAGATATAT TGATTGGTTG
    LeuThrValPro LeuGlnMet ValGluPhe TyrLeuIleLeu AlaAlaCys·
301 CTAACTGTTC CATTACAAAT GGTTGAGTTT TATTTAATTC TTGCAGCTTG
    ·ThrAsnVal AlaGlySerLeu PheLysLys LeuLeuVal GlySerLeuVal·
351 TACTAATGTA GCTGGTTCAT TATTTAAGAA ACTGCTTGTT GGTTCATTAG
    · MetLeuGly AlaGlyPhe AlaGlyGluAla GlyLeuAla ProAlaLeu
401 TAATGTTAGG TGCTGGATTT GCTGGTGAAG CTGGATTAGC TCCTGCATTG
    ProAlaPheIle LeuGlyMet AlaGlyTrp ValTyrMetIle TyrGluLeu·
451 CCTGCTTTCA TACTTGGTAT GGCTGGATGG GTATACATGA TATATGAGCT
    ·TyrMetGly GluGlyLysAla AlaValSer ThrAlaSer ProAlaValAsn·
501 GTATATGGGT GAAGGTAAAG CTGCGGTGAG TACTGCTAGT CCTGCCGTAA
    · SerAlaTyr AsnAlaMet MetMetIleIle ValPheGly TrpSerIle
551 ATTCTGCTTA CAATGCAATG ATGATGATTA TAGTTTTTGG TTGGTCTATT
    TyrProLeuGly TyrValAla GlyTyrLeu MetGlyAlaVal AspProSer·
601 TATCCACTGG GATATGTTGC TGGCTATTTA ATGGGTGCAG TAGATCCAAG
    ·ThrLeuAsn LeuIleTyrAsn LeuAlaAsp PheIleAsn LysIleLeuPhe·
651 TACATTAAAT CTAATATACA ACCTTGCTGA TTTTATTAAT AAGATTTTAT
    · GlyLeuIle IleTrpHis ValAlaValLys GluSerSer AsnAla
701 TCGGTTTAAT AATCTGGCAT GTTGCTGTTA AAGAATCTTC TAATGCTA
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Figure 1-66

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    MetGlyLysLeu LeuMetIle LeuGlyGly ValIleAlaLeu ProSerPhe·
  1 ATGGGTAAAT TATTAATGAT ATTAGGTGGT GTTATTGCAC TTCCTTCTTT
    ·AlaAlaGly GlyGlyAspLeu AspIleGly AspSerVal GlyValSerPhe·
 51 TGCTGCTGGT GGTGGTGATC TAGATATAGG AGACTCTGTT GGAGTTTCAT
    · TrpLeuVal ThrAlaAla MetLeuAlaAla ThrValPhe PhePheVal
101 TCTGGCTTGT TACTGCTGCT ATGTTAGCTG CTACTGTTTT CTTTTTTGTT
    GluArgAspGln ValSerAla LysTrpLys ThrSerLeuThr ValSerGly·
151 GAAAGAGACC AAGTAAGCGC AAAATGGAAA ACATCATTAA CAGTATCAGG
    ·LeuIleThr GlyIleAlaPhe TrpHisTyr LeuTyrMet ArgGlyValTrp·
201 TTTAATAACA GGTATTGCTT TCTGGCACTA CTTGTATATG AGAGGGGTTT
    · ValGluThr GlyAspSer ProThrValPhe ArgTyrIle AspTrpLeu
251 GGGTAGAAAC AGGCGATTCA CCAACTGTAT TTAGATATAT AGATTGGCTT
    LeuThrValPro LeuGlnMet ValGluPhe TyrLeuIleLeu AlaAlaCys·
301 TTAACTGTAC CACTACAAAT GGTAGAGTTT TATCTGATAT TAGCTGCATG
    ·ThrAsnVal AlaGlySerLeu PheLysLys LeuLeuIle GlySerLeuVal·
351 TACCAATGTT GCTGGATCTT TATTTAAAAA GCTACTAATC GGTTCATTGG
    · MetLeuIle GlyGlyPhe LeuGlyGluAla GlyMetIle AspValThr
401 TGATGTTGAT AGGAGGTTTC CTAGGTGAAG CTGGTATGAT AGATGTAACA
    LeuAlaPheVal IleGlyMet AlaGlyTrp LeuTyrMetIle TyrGluLeu·
451 CTAGCTTTTG TAATTGGAAT GGCTGGATGG CTATATATGA TCTATGAGCT
    ·TyrMetGly GluGlyLysAla AlaValSer ThrAlaSer ProAlaValAsn·
501 ATACATGGGT GAAGGTAAAG CTGCGGTGAG TACTGCTAGT CCTGCCGTAA
    · SerAlaTyr AsnAlaMet MetLeuIleIle ValValGly TrpSerIle
551 ATTCTGCTTA CAATGCAATG ATGCTTATTA TTGTTGTTGG TTGGTCAATC
    TyrProAlaGly TyrValAla GlyTyrLeu MetGlyGlyGlu GlyValTyr·
601 TATCCTGCTG GATATGTTGC TGGCTATCTT ATGGGCGGTG AAGGAGTATA
    ·AlaSerAsn LeuAsnLeuIle TyrAsnLeu AlaAspPhe IleAsnLysIle·
651 TGCCTCAAAT CTAAACTTAA TATATAACCT TGCTGATTTT ATCAACAAGA
    · LeuPheGly LeuIleIle TrpHisValAla ValLysGlu SerSerAsn
701 TTCTATTTGG TTTAATTATA TGGCATGTTG CTGTTAAAGA ATCTTCTAAT
    Ala
751 GCTA
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Figure 1-67

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    MetGlyLysGln LeuLeuIle LeuGlyGly ValIleAlaLeu ProSerPhe·
  1 ATGGGTAAAC AATTACTGAT TTTAGGTGGT GTTATTGCAC TTCCTTCGTT
    ·AlaAlaSer GlyGlyAspLeu AspSerSer AspLeuThr GlyValSerPhe·
 51 TGCTGCAAGT GGGGGCGATC TTGATTCTAG TGATCTTACT GGAGTTTCTT
    · TrpLeuVal ThrAlaAla LeuLeuAlaAla ThrValPhe PhePheVal
101 TTTGGCTTGT TACTGCTGCT CTCTTAGCTG CTACTGTTTT CTTTTTTGTT
    GluArgAspGln ValSerAla LysTrpLys ThrSerLeuThr ValSerGly·
151 GAAAGAGATC AAGTAAGTGC TAAATGGAAA ACATCACTTA CAGTTTCTGG
    ·LeuValThr GlyIleAlaPhe TrpHisTyr LeuTyrMet ArgGlyValTrp·
201 TTTAGTTACT GGTATTGCAT TCTGGCATTA TCTTTATATG AGAGGTGTGT
    · IleGluThr GlyGluThr ProThrValPhe ArgTyrIle AspTrpLeu
251 GGATCGAAAC TGGTGAAACG CCAACAGTAT TTAGATATAT TGATTGGTTG
    LeuThrValPro LeuLeuMet ValGluPhe TyrLeuIleLeu AlaAlaCys·
301 CTAACTGTTC CTTTGCTAAT GGTTGAGTTC TACTTAATCC TTGCAGCGTG
    ·ThrAsnVal AlaGlySerLeu PheLysLys LeuLeuGly GlySerLeuVal·
351 CACAAATGTT GCGGGTTCAT TATTTAAGAA ACTACTTGGT GGTTCGCTTG
    · MetLeuIle AlaGlyTyr MetGlyGluSer GlySerLeu ProValLeu
401 TAATGCTTAT TGCAGGATAT ATGGGTGAGT CTGGAAGTCT TCCAGTATTG
    ProAlaPheIle ValGlyCys LeuAlaTrp PheTyrMetIle TyrGluLeu·
451 CCTGCATTCA TTGTTGGGTG CTTAGCATGG TTCTACATGA TTTATGAACT
    ·TyrAlaGly GluGlyLysAla AlaValThr ThrAlaSer ProAlaValMet·
501 ATATGCTGGT GAAGGTAAGG CTGCAGTTAC TACTGCTAGT CCTGCTGTTA
    · SerAlaTyr AsnThrMet MetLeuIleIle ValValGly TrpAlaIle
551 TGTCTGCATA CAATACTATG ATGTTGATTA TCGTAGTAGG TTGGGCAATT
    TyrProAlaGly TyrAlaAla GlyTyrLeu MetGlyGlyAsp GlyValTyr·
601 TACCCAGCTG GATATGCTGC TGGTTACCTA ATGGGTGGTG ATGGCGTATA
    ·AlaGlnAsn LeuAsnValIle TyrAsnLeu AlaAspPhe ValAsnLysIle·
651 TGCTCAGAAT TTAAACGTTA TATATAACCT TGCTGACTTT GTTAACAAGA
    · LeuPheGly LeuValIle TrpHisValAla ValLysGlu SerSerAsn
701 TTTTATTTGG TTTAGTTATC TGGCATGTTG CTGTTAAAGA ATCTTCTAAT
    Ala
751 GCTA
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Figure 1-68

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    MetGlyLysLeu LeuMetIle LeuGlyGly ValIleAlaLeu ProSerPhe·
  1 ATGGGTAAAT TATTAATGAT CTTAGGTGGT GTCATTGCGC TTCCTTCGTT
    ·AlaAlaSer GlyGlyAspLeu AspSerSer AspLeuThr GlyValSerPhe·
 51 TGCTGCAAGT GGTGGCGATC TTGATTCTAG TGATCTTACT GGAGTATCTT
    · TrpLeuVal ThrAlaAla LeuLeuAlaAla ThrValPhe PhePheVal
101 TTTGGCTTGT TACTGCTGCT CTCTTAGCTG CTACTGTTTT CTTTTTTGTT
    GluArgAspGln ValSerAla LysTrpLys ThrSerLeuThr ValSerGly·
151 GAAAGAGATC AAGTAAGTGC TAAATGGAAA ACATCACTTA CAGTTTCTGG
    ·LeuValThr GlyIleAlaPhe TrpHisTyr LeuTyrMet ArgGlyValTrp·
201 TTTAGTTACT GGTATTGCAT TCTGGCATTA TCTCTATATG AGAGGTGTGT
    · IleGluThr GlyGluThr ProThrValPhe ArgTyrIle AspTrpLeu
251 GGATCGAAAC TGGTGAAACG CCAACAGTAT TTAGATATAT TGATTGGTTG
    LeuThrValPro LeuLeuMet ValGluPhe TyrLeuIleLeu AlaAlaCys·
301 CTAACTGTTC CGTTACTAAT GGTTGAGTTC TACTTAATTC TTGCGGCTTG
    ·ThrAsnVal AlaGlySerLeu PheLysLys LeuLeuGly GlySerLeuVal·
351 CACAAATGTT GCGGGCTCAT TATTTAAGAA ACTACTAGGT GGTTCGCTTG
    · MetLeuIle AlaGlyTyr MetGlyGluSer GlySerLeu ProValLeu
401 TAATGCTTAT TGCAGGATAT ATGGGTGAGT CTGGAAGTCT TCCAGTATTG
    ProAlaPheIle ValGlyCys LeuAlaTrp PheTyrMetIle TyrGluLeu·
451 CCTGCATTCA TTGTTGGATG CCTAGCATGG TTCTACATGA TTTATGAACT
    ·TyrAlaGly GluGlyLysAla AlaValThr ThrAlaSer ProAlaValMet·
501 ATATGCTGGT GAAGGTAAGG CTGCAGTTAC TACTGCTAGT CCTGCTGTTA
    · SerAlaTyr AsnThrMet MetLeuIleIle ValValGly TrpAlaIle
551 TGTCTGCATA CAATACTATG ATGTTGATTA TCGTAGTAGG TTGGGCAATT
    TyrProAlaGly TyrAlaAla GlyTyrLeu MetGlyGlyAsp GlyValTyr·
601 TACCCGGCTG GATATGCTGC TGGATACCTA ATGGGTGGTG ATGGCGTATA
    ·AlaGlnAsn LeuAsnValIle TyrAsnLeu AlaAspPhe ValAsnLysIle·
651 TGCTCAGAAT TTAAACGTTA TATATAATCT TGCTGACTTT GTTAACAAGA
    · LeuPheGly LeuValIle TrpHisValAla ValLysGlu SerSerAsn
701 TTTTATTTGG TTTAGTTATC TGGCATGTCG CTGTTAAAGA ATCTTCTAAT
    Ala
751 GCTA
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Figure 1-69

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    MetGlyLysLeu LeuValIle LeuGlyGly ValIleAlaLeu ProProPhe·
  1 ATGGGTAAAC TATTAGTGAT ATTAGGTGGT GTCATTGCGC TTCCTCCGTT
    ·AlaAlaSer GlyGlyAspLeu AspSerSer AspLeuThr GlyValSerPhe·
 51 TGCTGCAAGT GGTGGCGATC TTGATTCTAG TGATCTTACT GGAGTATCTT
    · TrpLeuVal ThrAlaAla LeuLeuAlaAla ThrValPhe PhePheVal
101 TTTGGCTTGT TACTGCTGCT CTCTTAGCTG CTACTGTTTT CTTTTTTGTT
    GluArgAspGln ValSerAla LysTrpLys ThrSerLeuThr ValSerGly·
151 GAAAGAGATC AAGTAAGTGC TAAATGGAAA ACATCACTTA CAGTTTCTGG
    ·LeuValThr GlyIleAlaPhe TrpHisTyr LeuTyrMet ArgGlyValTrp·
201 TTTAGTTACT GGTATTGCAT TCTGGCATTA TCTCTATATG AGAGGTGTGT
    · IleGluThr GlyGluThr ProThrValPhe ArgTyrIle AspTrpLeu
251 GGATCGAAAC TGGTGAAACG CCAACAGTAT TTAGATATAT TGATTGGTTG
    LeuThrValPro LeuLeuMet ValGluPhe TyrLeuIleLeu AlaAlaCys·
301 CTAACTGTTC CGTTACTAAT GGTTGAGTTC TACTTAATTC TTGCAGCTTG
    ·ThrAsnVal AlaGlySerLeu PheLysLys LeuLeuGly GlySerLeuVal·
351 CACAAATGTT GCGGGCTCAT TATTTAAGAA ACTACTAGGT GGTTCGCTTG
    · MetLeuIle AlaGlyTyr MetGlyGluSer GlySerLeu ProValLeu
401 TAATGCTTAT TGCAGGATAT ATGGGTGAGT CTGGAAGTCT TCCAGTATTG
    ProAlaPheIle ValGlyCys LeuAlaTrp PheTyrMetIle TyrGluLeu·
451 CCTGCATTCA TTGTTGGATG CCTAGCATGG TTCTACATGA TTTATGAACT
    ·TyrAlaGly GluGlyLysAla AlaValThr ThrAlaSer ProAlaValMet·
501 ATATGCTGGT GAAGGTAAGG CTGCAGTTAC TACTGCTAGT CCTGCTGTTA
    · SerAlaTyr AsnThrMet MetLeuIleIle ValValGly TrpAlaIle
551 TGTCTGCATA CAATACTATG ATGTTGATTA TCGTAGTAGG TTGGGCAATT
    TyrProAlaGly TyrAlaAla GlyTyrLeu MetGlyGlyAsp GlyValTyr·
601 TACCCGGCTG GATATGCTGC TGGATACCTA ATGGGTGGTG ATGGCGTATA
    ·AlaGlnAsn LeuAsnValIle TyrAsnLeu AlaAspPhe ValAsnLysIle·
651 TGCTCAGAAT TTAAACGTTA TATATAATCT TGCTGACTTT GTTAACAAGA
    · LeuPheGly LeuValIle TrpHisValAla ValLysGlu SerSerAsn
701 TTTTATTTGG TTTAGTTATC TGGCATGTCG CTGTTAAAGA ATCTTCTAAT
    Ala
751 GCTA
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Figure 1-70

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    LeuLeuIleLeu GlyGlyVal IleAlaLeu ProSerPheAla AlaSerGly·
  1 TTATTGATAT TAGGTGGTGT TATTGCACTT CCTTCGTTTG CTGCAAGTGG
    ·GlyAspLeu AspSerSerAsp LeuThrGly ValSerPhe TrpLeuValThr·
 51 GGGCGATCTT GATTCTAGTG ATCTTACTGG AGTTTCTTTT TGGCTTGTTA
    · AlaAlaLeu LeuAlaAla ThrValPhePhe PheValGlu ArgAspGln
101 CTGCTGCTCT CTTAGCTGCT ACTGTTTTCT TTTTTGTTGA AAGAGATCAA
    ValSerAlaLys TrpLysThr SerLeuThr ValSerGlyLeu ValThrGly·
151 GTAAGTGCTA AATGGAAAAC ATCACTTACA GTTTCTGGTT TAGTTACTGG
    ·IleAlaPhe TrpHisTyrLeu TyrMetArg GlyValTrp IleGluThrGly·
201 TATTGCATTC TGGCATTATC TTTATATGAG AGGTGTGTGG ATCGAAACTG
    · GluThrPro ThrValPhe ArgTyrIleAsp TrpLeuLeu ThrValPro
251 GTGAAACGCC AACAGTATTT AGATATATTG ATTGGTTGCT AACTGTTCCT
    LeuLeuMetVal GluPheTyr LeuIleLeu AlaAlaCysThr AsnValAla·
301 TTGCTAATGG TTGAGTTCTA CTTAATCCTT GCAGCGTGCA CAAATGTTGC
    ·GlySerLeu PheLysLysLeu LeuGlyGly SerLeuVal MetLeuIleAla·
351 GGGTTCATTA TTTAAGAAAC TACTTGGTGG TTCGCTTGTA ATGCTTATTG
    · GlyTyrMet GlyGluSer GlySerLeuPro ValLeuPro AlaPheIle
401 CAGGATATAT GGGTGAGTCT GGAAGTCTTC CAGTATTGCC TGCATTCATT
    ValGlyCysLeu AlaTrpPhe TyrMetIle TyrGluLeuTyr AlaGlyGlu·
451 GTTGGGTGCT TAGCATGGTT CTACATGATT TATGAACTAT ATGCTGGTGA
    ·GlyLysAla AlaValThrThr AlaSerPro AlaValMet SerAlaTyrAsn·
501 AGGTAAGGCT GCAGTTACTA CTGCTAGTCC TGCTGTTATG TCTGCATACA
    · ThrMetMet LeuIleIle ValValGlyTrp AlaIleTyr ProAlaGly
551 ATACTATGAT GTTGATTATC GTAGTAGGTT GGGCAATTTA CCCAGCTGGA
    TyrAlaAlaGly TyrLeuMet GlyGlyAsp GlyValTyrAla GlnAsnLeu·
601 TATGCTGCTG GTTACCTAAT GGGTGGTGAT GGCGTATATG CTCAGAATTT
    ·AsnValIle TyrAsnLeuAla AspPheVal AsnLysIle LeuPheGlyLeu·
651 AAACGTTATA TATAACCTTG CTGACTTTGT TAACAAGATT TTATTTGGTT
    · ValIleTrp HisValAla ValLysGluSer SerAsnAla
701 TAGTTATCTG GCATGTTGCT GTTAAAGAAT CTTCTAATGC TA
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Figure 1-71

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    MetGlyLysLeu LeuLeuIle LeuGlyGly ValIleAlaLeu ProSerPhe·
  1 ATGGGTAAAT TATTACTGAT TTTAGGCGGT GTTATTGCGC TTCCTTCGTT
    ·AlaAlaSer GlyGlyAspLeu AspSerSer AspLeuThr GlyValSerPhe·
 51 TGCTGCAAGT GGAGGCGATC TTGATTCTAG TGATCTTACT GGAGTATCTT
    · TrpLeuVal ThrAlaAla LeuLeuAlaAla ThrValPhe PhePheVal
101 TTTGGCTTGT TACTGCTGCT CTCTTAGCTG CTACTGTTTT CTTTTTTGTT
    GluArgAspGln ValSerAla LysTrpLys ThrSerLeuThr ValSerGly·
151 GAAAGAGATC AAGTAAGCGC TAAATGGAAA ACATCACTTA CAGTTTCTGG
    ·LeuValThr GlyIleAlaPhe TrpHisTyr LeuTyrMet ArgGlyValTrp·
201 TTTAGTTACT GGTATTGCAT TCTGGCATTA TCTCTATATG AGAGGTGTGT
    · IleGluThr GlyGluThr ProThrValPhe ArgTyrIle AspTrpLeu
251 GGATCGAAAC CGGTGAAACA CCAACAGTAT TTAGATATAT TGATTGGTTG
    LeuThrValPro LeuLeuMet ValGluPhe TyrLeuIleLeu AlaAlaCys·
301 CTAACTGTTC CGTTACTAAT GGTTGAGTTC TACTTAATCC TCGCAGCTTG
    ·ThrAsnVal AlaGlySerLeu PheLysLys LeuLeuIle GlySerLeuVal·
351 CACTAATGTT GCAGGTTCAT TATTTAAGAA ACTACTAATT GGTTCGCTTG
    · MetLeuIle AlaGlyTyr MetGlyGluSer GlySerLeu ProValLeu
401 TAATGCTTAT TGCAGGATAT ATGGGTGAGT CTGGAAGTCT TCCAGTATTG
    ProAlaPheLeu ValGlyCys AlaAlaTrp LeuTyrMetIle TyrGluLeu·
451 CCTGCATTCC TTGTTGGGTG CGCAGCATGG TTATACATGA TTTATGAACT
    ·TyrAlaGly GluGlyLysAla AlaValThr ThrAlaSer ProAlaValMet·
501 ATATGCTGGT GAAGGTAAGG CTGCAGTTAC TACTGCTAGT CCTGCTGTTA
    · SerAlaTyr AsnThrMet MetLeuIleIle ValValGly TrpAlaIle
551 TGTCTGCATA CAATACTATG ATGTTGATTA TCGTAGTAGG TTGGGCAATA
    TyrProAlaGly TyrAlaAla GlyTyrLeu MetGlyGlyAsp GlyValTyr·
601 TACCCAGCTG GATATGCTGC TGGTTACTTA ATGGGTGGAG ATGGCGTATA
    ·AlaGlnAsn LeuAsnValIle TyrAsnLeu AlaAspPhe ValAsnLysIle·
651 TGCTCAGAAT TTAAACGTTA TATATAACCT TGCTGACTTT GTTAACAAGA
    · LeuPheGly LeuValIle TrpHisValAla ValLysGlu SerSerAsn
701 TTTTATTTGG TTTAGTTATC TGGCATGTTG CTGTTAAAGA ATCTTCTAAT
    Ala
751 GCTA
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Figure 1-72

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    MetGlyLysLeu LeuLeuIle LeuGlyGly ValIleAlaLeu ProSerPhe·
  1 ATGGGTAAAT TATTATTGAT CTTAGGCGGT GTTATTGCGC TTCCTTCGTT
    ·AlaAlaSer GlyGlyAspLeu AspSerSer AspLeuThr GlyValSerPhe·
 51 TGCTGCAAGT GGAGGCGATC TTGATTCTAG TGATCTTACT GGAGTATCTT
    · TrpLeuVal ThrAlaAla LeuLeuAlaAla ThrValPhe PhePheVal
101 TTTGGCTTGT TACTGCTGCT CTCTTAGCTG CTACTGTTTT CTTTTTTGTT
    GluArgAspGln ValSerAla LysTrpLys ThrSerLeuThr ValSerGly·
151 GAAAGAGATC AAGTAAGCGC TAAATGGAAA ACATCACTTA CAGTTTCTGG
    ·LeuValThr GlyIleAlaPhe TrpHisTyr LeuTyrMet ArgGlyValTrp·
201 TTTAGTTACT GGTATTGCAT TCTGGCATTA TCTCTATATG AGAGGTGTGT
    · IleGluThr GlyGluThr ProThrValPhe ArgTyrIle AspTrpLeu
251 GGATCGAAAC CGGTGAAACA CCAACAGTAT TTAGGTATAT TGATTGGTTG
    LeuThrValPro LeuLeuMet ValGluPhe TyrLeuIleLeu AlaAlaCys·
301 CTAACTGTTC CGTTACTAAT GGTTGAGTTC TACTTAATCC TCGCAGCTTG
    ·ThrAsnVal AlaGlySerLeu PheLysLys LeuLeuIle GlySerLeuVal·
351 CACTAATGTT GCAGGTTCAT TATTTAAGAA ACTACTAATT GGTTCGCTTG
    · MetLeuIle AlaGlyTyr MetGlyGluSer GlySerLeu ProValLeu
401 TAATGCTTAT TGCAGGATAT ATGGGTGAGT CTGGAAGTCT TCCAGTATTG
    ProAlaPheLeu ValGlyCys AlaAlaTrp LeuTyrMetIle TyrGluLeu·
451 CCTGCATTCC TTGTTGGGTG CGCAGCATGG TTATACATGA TTTATGAACT
    ·TyrAlaGly GluGlyLysAla AlaValThr ThrAlaSer ProAlaValMet·
501 ATATGCTGGT GAAGGTAAGG CTGCAGTTAC TACTGCTAGT CCTGCTGTTA
    · SerAlaTyr AsnThrMet MetLeuIleIle ValValGly TrpAlaIle
551 TGTCTGCATA CAATACTATG ATGTTGATTA TCGTAGTAGG TTGGGCAATA
    TyrProAlaGly TyrAlaAla GlyTyrLeu MetGlyGlyAsp GlyValTyr·
601 TACCCAGCTG GATATGCTGC TGGTTACTTA ATGGGTGGAG ATGGCGTATA
    ·AlaGlnAsn LeuAsnValIle TyrAsnLeu AlaAspPhe ValAsnLysIle·
651 TGCTCAGAAT TTAAACGTTA TATATAACCT TGCTGACTTT GTTAACAAGA
    · LeuPheGly LeuValIle TrpHisValAla ValLysGlu SerSerAsn
701 TTTTATTTGG TTTAGTTATC TGGCATGTTG CTGTTAAAGA ATCTTCTAAT
751 C
```

Figure 1-73

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    MetGlyLysLeu LeuLeuIle LeuGlyGly ValIleAlaLeu ProSerPhe·
  1 ATGGGTAAAT TATTACTGAT CTTAGGCGGT GTTATTGCGC TTCCTTCGTT
    ·AlaAlaSer GlyGlyAspLeu AspSerSer AspLeuThr GlyValSerPhe·
 51 TGCTGCAAGT GGAGGCGATC TTGATTCTAG TGATCTTACT GGAGTATCTT
    · TrpLeuVal ThrAlaAla LeuLeuAlaAla ThrValPhe PhePheVal
101 TTTGGCTTGT TACTGCTGCT CTCTTAGCTG CTACTGTTTT CTTTTTTGTT
    GluArgAspGln ValSerAla LysTrpLys ThrSerLeuThr ValSerGly·
151 GAAAGAGATC AAGTAAGCGC TAAATGGAAA ACATCACTTA CAGTTTCTGG
    ·LeuValThr GlyIleAlaPhe TrpHisTyr LeuTyrMet ArgGlyValTrp·
201 TTTAGTTACT GGTATTGCAT TCTGGCATTA TCTCTATATG AGAGGTGTGT
    · IleGluThr GlyGluThr ProThrValPhe ArgTyrIle AspTrpLeu
251 GGATCGAAAC CGGTGAAACA CCAACAGTAT TTAGATATAT TGATTGGTTG
    LeuThrValPro LeuLeuMet ValGluPhe TyrLeuIleLeu AlaAlaCys·
301 CTAACTGTTC CGTTACTAAT GGTTGAGTTC TACTTAATCC TCGCAGCTTG
    ·ThrAsnVal AlaGlySerLeu PheLysLys LeuLeuIle GlySerLeuVal·
351 CACTAATGTT GCAGGTTCAT TATTTAAGAA ACTACTAATT GGTTCGCTTG
    · MetLeuIle AlaGlyTyr MetGlyGluSer GlySerLeu ProValLeu
401 TAATGCTTAT TGCAGGATAT ATGGGTGAGT CTGGAAGTCT TCCAGTATTG
    ProAlaPheLeu ValGlyCys AlaAlaTrp LeuTyrMetIle TyrGluLeu·
451 CCTGCATTCC TTGTTGGGTG CGCAGCATGG TTATACATGA TTTATGAACT
    ·TyrAlaGly GluGlyLysAla AlaValThr ThrAlaSer ProAlaValMet·
501 ATATGCTGGT GAAGGTAAGG CTGCAGTTAC TACTGCTAGT CCTGCTGTTA
    · SerAlaTyr AsnThrMet MetLeuIleIle ValValGly TrpAlaIle
551 TGTCTGCATA CAATACTATG ATGTTGATTA TCGTAGTAGG TTGGGCAATA
    TyrProAlaGly TyrAlaAla GlyTyrLeu MetGlyGlyAsp GlyValTyr·
601 TACCCAGCTG GATATGCTGC TGGTTACTTA ATGGGTGGAG ATGGCGTATA
    ·AlaGlnAsn LeuAsnValIle TyrAsnLeu AlaAspPhe ValAsnLysIle·
651 TGCTCAGAAT TTAAACGTTA TATATAACCT TGCTGACTTC GTTAACAAGA
    · LeuPheGly LeuValIle TrpHisValAla ValLysGlu SerSerAsn
701 TTTTATTTGG TTTAGTTATC TGGCATGTTG CTGTTAAAGA ATCTTCTAAT
    Ala
751 GCTA
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Figure 1-74

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    MetGlyLysArg LeuValIle LeuGlyGly ValIleAlaLeu ProSerPhe·
  1 ATGGGTAAAA GATTAGTGAT CTTAGGCGGT GTTATTGCGC TTCCTTCGTT
    ·AlaAlaSer GlyGlyAspLeu AspSerSer AspLeuThr GlyValSerPhe·
 51 TGCTGCAAGT GGAGGCGATC TTGATTCTAG TGATCTTACT GGAGTATCTT
    · TrpLeuVal ThrAlaAla LeuLeuAlaAla ThrValPhe PhePheVal
101 TTTGGCTTGT TACTGCTGCT CTCTTAGCTG CTACTGTTTT CTTTTTTGTT
    GluArgAspGln ValSerAla LysTrpLys ThrSerLeuThr ValSerGly·
151 GAAAGAGATC AAGTAAGCGC TAAATGGAAA ACATCACTTA CAGTTTCTGG
    ·LeuValThr GlyIleAlaPhe TrpHisTyr LeuTyrMet ArgGlyValTrp·
201 TTTAGTTACT GGTATTGCAT TCTGGCATTA TCTCTATATG AGAGGTGTGT
    · IleGluThr GlyGluThr ProThrValPhe ArgTyrIle AspTrpLeu
251 GGATCGAAAC CGGTGAAACA CCAACAGTAT TTAGATATAT TGATTGGTTG
    LeuThrValPro LeuLeuMet ValGluPhe TyrLeuIleLeu AlaAlaCys·
301 CTAACTGTTC CGTTACTAAT GGTTGAGTTC TACTTAATCC TCGCAGCTTG
    ·ThrAsnVal AlaGlySerLeu PheLysLys LeuLeuIle GlySerLeuVal·
351 CACTAATGTT GCAGGTTCAT TATTTAAGAA ACTACTAATT GGTTCGCTTG
    · MetLeuIle AlaGlyTyr MetGlyGluSer GlyAsnLeu ProValLeu
401 TAATGCTTAT TGCAGGATAT ATGGGTGAGT CTGGAAATCT TCCAGTATTG
    ProAlaPheLeu IleGlyCys AlaAlaTrp LeuTyrMetIle TyrGluLeu·
451 CCTGCATTCC TTATTGGGTG CGCAGCATGG TTATACATGA TTTATGAACT
    ·TyrAlaGly GluGlyLysAla AlaValThr ThrAlaSer ProAlaValMet·
501 ATATGCTGGT GAAGGTAAGG CTGCAGTTAC TACTGCTAGT CCTGCTGTTA
    · SerAlaTyr AsnThrMet MetLeuIleIle ValValGly TrpAlaIle
551 TGTCTGCATA CAATACTATG ATGTTGATTA TCGTAGTAGG TTGGGCAATA
    TyrProAlaGly TyrAlaAla GlyTyrLeu MetGlyGlyAsp GlyValTyr·
601 TACCCAGCTG GATATGCTGC TGGTTACTTA ATGGGTGGAG ATGGCGTATA
    ·AlaGlnAsn LeuAsnValIle TyrAsnLeu AlaAspPhe ValAsnLysIle·
651 TGCTCAGAAT TTAAACGTTA TATATAACCT TGCTGACTTT GTTAACAAGA
    · LeuPheGly LeuValIle TrpHisValAla ValLysGlu SerSerAsn
701 TTTTATTTGG TTTAGTTATC TGGCATGTTG CTGTTAAAGA ATCTTCTAAT
    Ala
751 GCTA
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Figure 1-75

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    SerLysLysLeu LeuAlaThr PheLeuVal ValThrSerIle ProAlaIle·
  1 AGCAAGAAAC TTCTTGCGAC ATTTCTAGTA GTAACATCAA TACCAGCAAT
    ·AlaLeuAla GlyGlyHisSer SerGlyGly LeuAlaGly AspAspCysVal·
 51 AGCATTAGCT GGTGGGCATT CATCTGGTGG TTTAGCAGGA GATGACTGCG
    · GlyValThr PheTrpIle IleSerMetAla MetValAla SerThrVal
101 TAGGTGTTAC TTTCTGGATT ATTTCTATGG CTATGGTTGC TTCAACAGTA
    PhePheIleVal GluArgAsp ArgValSer AlaLysTrpLys ThrSerLeu·
151 TTCTTTATTG TTGAGCGTGA CAGAGTTAGT GCGAAATGGA AAACATCATT
    ·ThrValSer AlaLeuMetThr LeuIleAla AlaValHis TyrPheTyrMet·
201 AACAGTATCA GCGCTTATGA CTTTAATCGC AGCTGTTCAC TATTTCTACA
    · ArgAspVal TrpValAla ThrGlyGluSer ProThrVal PheArgTyr
251 TGAGAGATGT TTGGGTAGCA ACTGGCGAAT CACCAACAGT CTTTAGATAT
    IleAspTrpLeu LeuThrVal ProLeuLeu MetIleGluPhe TyrPheIle·
301 ATAGATTGGT TGTTAACAGT TCCACTTCTA ATGATTGAGT TCTACTTTAT
    ·LeuAlaAla ValThrThrVal SerSerGly IlePheTrp ArgLeuLeuVal·
351 CTTAGCAGCG GTTACAACTG TATCTTCAGG AATTTTCTGG AGATTACTAG
    · GlyThrVal IleMetLeu ValGlyGlyTyr LeuGlyGlu AlaGlyMet
401 TAGGTACTGT AATAATGCTA GTAGGTGGAT ACTTAGGTGA AGCTGGAATG
    IleSerValMet ThrGlyPhe IleIleGly MetIleGlyTrp LeuTyrIle·
451 ATTTCGGTAA TGACAGGTTT CATTATAGGG ATGATAGGTT GGCTATACAT
    ·LeuTyrGlu IlePheAlaGly GluAlaSer LysAlaAsn AlaSerSerGly·
501 TCTTTATGAA ATCTTTGCAG GTGAAGCTAG CAAAGCAAAT GCTTCTAGTG
    · SerAlaAla CysGlnThr AlaPheGlyAla LeuArgLeu IleValThr
551 GAAGTGCAGC TTGTCAAACA GCCTTTGGAG CTTTACGTTT AATCGTAACC
    IleGlyTrpAla IleTyrPro LeuGlyTyr PheLeuGlyTyr LeuGlyGly·
601 ATTGGTTGGG CAATTTATCC GCTAGGATAT TTCTTAGGTT ATCTAGGCGG
    ·GlyAlaAsp ProAlaThrLeu AsnIleVal TyrAsnLeu AlaAspPheVal·
651 TGGGGCAGAC CCAGCTACAT TAAACATTGT TTACAACTTA GCTGACTTTG
    · AsnLysIle AlaPheGly LeuIleIleTrp AlaAlaAla ValLysGlu
701 TAAACAAAAT TGCTTTTGGT TTAATTATAT GGGCAGCAGC TGTTAAAGAA
    SerSerAsnAla
751 TCTTCTAATG CTA
```

Figure 1-76

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    SerLysLysLeu LeuAlaThr PheLeuVal ValThrSerIle ProAlaIle·
  1 AGCAAGAAAC TTCTTGCGAC ATTTCTAGTA GTAACATCAA TACCAGCAAT
    ·AlaLeuAla GlyGlyHisSer SerGlyGly LeuAlaGly AspAspTyrVal·
 51 AGCATTAGCT GGTGGGCATT CATCTGGTGG TTTAGCAGGA GATGACTACG
    · GlyValThr PheTrpIle IleSerMetAla MetValAla SerThrVal
101 TAGGTGTTAC TTTCTGGATT ATTTCTATGG CTATGGTTGC TTCAACAGTA
    PhePheIleVal GluArgAsp ArgValSer AlaLysTrpLys ThrSerLeu·
151 TTCTTTATTG TTGAGCGTGA CAGAGTTAGT GCGAAATGGA AAACATCATT
    ·ThrValSer AlaLeuValThr LeuIleAla AlaValHis TyrPheTyrMet·
201 AACAGTATCA GCGCTTGTGA CTTTAATCGC AGCTGTTCAC TATTTCTACA
    · ArgAspVal TrpValAla ThrGlyGluSer ProThrVal PheArgTyr
251 TGAGAGATGT TTGGGTAGCA ACTGGCGAAT CACCAACAGT CTTTAGATAT
    IleAspTrpLeu LeuThrVal ProLeuLeu MetIleGluPhe TyrPheIle·
301 ATAGATTGGT TGTTAACAGT TCCACTTCTA ATGATTGAGT TCTACTTTAT
    ·LeuAlaAla ValThrThrVal SerSerGly IlePheTrp ArgLeuLeuVal·
351 CTTAGCAGCG GTTACAACTG TATCTTCAGG AATTTTCTGG AGATTACTAG
    · GlyThrVal IleMetLeu ValGlyGlyTyr LeuGlyGlu AlaGlyMet
401 TAGGTACTGT AATAATGCTA GTAGGTGGAT ACTTAGGTGA AGCTGGAATG
    IleSerValMet ThrGlyPhe IleIleGly MetIleGlyTrp LeuTyrIle·
451 ATTTCGGTAA TGACAGGTTT CATTATAGGG ATGATAGGTT GGCTATACAT
    ·LeuTyrGlu IlePheAlaGly GluAlaSer LysAlaAsn AlaSerSerGly·
501 TCTTTATGAA ATCTTTGCAG GTGAAGCTAG CAAAGCAAAT GCTTCTAGTG
    · SerAlaAla CysGlnThr AlaPheGlyAla LeuArgLeu IleValThr
551 GAAGTGCAGC TTGTCAAACA GCCTTTGGAG CTTTACGTTT AATCGTAACC
    IleGlyTrpAla IleTyrPro LeuGlyTyr PheLeuGlyTyr LeuGlyGly·
601 ATTGGTTGGG CAATTTATCC GCTAGGATAT TTCTTAGGTT ATCTAGGCGG
    ·GlyAlaAsp ProAlaThrLeu AsnIleVal TyrAsnLeu AlaAspPheVal·
651 TGGGGCAGAC CCAGCTACAT TAAACATTGT TTACAACTTA GCTGACTTTG
    · AsnLysIle AlaPheGly LeuIleIleTrp AlaAlaAla ValLysGlu
701 TAAACAAAAT TGCTTTTGGT TTAATTATAT GGGCAGCAGC TGTTAAAGAA
    SerSerAsnAla
751 TCTTCTAATG CTA
```

Figure 1-77

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    SerLysLysPhe PheSerThr LeuLeuLeu ValThrSerLeu ProThrLeu·
  1 AGCAAAAAGT TTTTTTCGAC GCTTCTATTA GTAACATCCT TGCCAACTTT
    ·AlaLeuAla GlyGlyHisSer SerGlyLeu AlaGlyAsp AspTyrValGly·
 51 AGCTTTAGCA GGTGGGCATT CATCTGGTCT TGCTGGAGAT GACTATGTAG
    · ValThrPhe TrpIleIle SerMetAlaMet ValAlaSer ThrValPhe
101 GTGTTACTTT CTGGATTATT TCCATGGCTA TGGTTGCGTC AACAGTATTT
    PheIleValGlu ArgAspArg ValSerSer LysTrpLysThr SerLeuThr·
151 TTCATTGTGG AGCGTGACAG AGTTAGCTCA AAATGGAAAA CATCATTAAC
    ·ValSerAla LeuValThrLeu IleAlaAla ValHisTyr PheTyrMetArg·
201 AGTATCAGCT TTGGTTACAT TAATTGCTGC AGTGCATTAT TTTTATATGA
    · AspValTrp ValAlaThr GlyGluSerPro ThrValPhe ArgTyrIle
251 GAGATGTATG GGTAGCAACT GGTGAATCAC CAACAGTATT TAGATATATA
    AspTrpLeuLeu ThrValPro LeuLeuMet IleGluPheTyr PheIleLeu·
301 GATTGGTTAT TAACAGTGCC ACTATTAATG ATTGAGTTCT ACTTTATTTT
    ·AlaAlaVal ThrThrValSer SerGlyIle PheTrpArg LeuLeuIleGly·
351 AGCAGCGGTA ACTACAGTTT CTTCAGGAAT ATTCTGGAGA CTATTAATTG
    · ThrValVal MetLeuVal GlyGlyTyrMet GlyGluAla GlyMetIle
401 GTACAGTTGT AATGCTAGTA GGTGGGTATA TGGGTGAAGC TGGAATGATC
    SerValMetThr GlyPheIle IleGlyMet IleGlyTrpLeu TyrIleLeu·
451 TCAGTGATGA CAGGTTTCAT TATCGGGATG ATCGGTTGGC TATATATTCT
    ·TyrGluIle PheAlaGlyGlu AlaSerLys AlaAsnAla SerSerGlySer·
501 TTACGAAATC TTTGCTGGTG AAGCTAGTAA AGCAAACGCT TCTAGTGGAA
    · AlaAlaCys GlnThrAla PheGlyAlaLeu ArgLeuIle ValThrVal
551 GCGCAGCATG CCAAACAGCA TTTGGTGCGT TACGTTTAAT CGTTACAGTT
    GlyTrpAlaIle TyrProIle GlyTyrPhe ValGlyTyrLeu ThrGlyGly·
601 GGTTGGGCGA TCTATCCAAT AGGATACTTC GTAGGCTATC TAACTGGTGG
    ·GlyAlaAsp AlaAlaThrLeu AsnIleVal TyrAsnLeu AlaAspPheVal·
651 TGGTGCAGAC GCAGCTACAC TAAACATAGT TTACAACTTA GCTGATTTTG
    · AsnLysIle AlaPheGly LeuIleIleTrp AlaAlaAla ValLysGlu
701 TAAACAAAAT TGCCTTTGGT TTAATCATAT GGGCAGCAGC TGTTAAAGAA
    SerSerAsnAla
751 TCTTCTAATG CTA
```

Figure 1-78

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    SerLysLysPhe PheSerThr LeuLeuLeu ValThrSerLeu ProThrLeu·
  1 AGCAAAAAGT TTTTTTCGAC GCTTCTATTA GTAACATCCT TGCCAACTTT
    ·AlaLeuAla GlyGlyHisSer SerGlyLeu AlaGlyAsp AspTyrValGly·
 51 AGCTTTAGCA GGTGGGCATT CATCTGGTCT TGCTGGAGAT GACTATGTAG
    · ValThrPhe TrpIleIle SerMetAlaMet ValAlaSer ThrValPhe
101 GTGTTACTTT CTGGATTATT TCCATGGCTA TGGTTGCGTC AACAGTATTT
    PheIleValGlu ArgAspArg ValSerSer LysTrpLysThr SerLeuThr·
151 TTCATTGTGG AGCGTGACAG AGTTAGCTCA AAATGGAAAA CATCATTAAC
    ·ValSerAla LeuValThrLeu IleAlaAla ValHisTyr PheTyrMetArg·
201 AGTATCAGCT TTGGTTACAT TAATTGCTGC AGTGCATTAT TTTTATATGA
    · AspValTrp ValAlaThr GlyGluSerPro ThrValPhe ArgTyrIle
251 GAGATGTATG GGTAGCAACT GGTGAATCAC CAACAGTATT TAGATATATA
    AspTrpLeuLeu ThrValPro LeuLeuMet IleGluPheTyr PheIleLeu·
301 GATTGGTTAT TAACAGTGCC ACTATTAATG ATTGAGTTCT ACTTTATTTT
    ·AlaAlaVal ThrThrValSer SerGlyIle PheTrpArg LeuLeuIleGly·
351 AGCAGCGGTA ACTACAGTTT CTTCAGGAAT ATTCTGGAGA CTATTAATTG
    · ThrValVal MetLeuVal GlyGlyTyrMet GlyGluAla GlyMetIle
401 GTACAGTTGT AATGCTAGTA GGTGGGTATA TGGGTGAAGC TGGAATGATC
    SerValMetThr GlyPheIle IleGlyMet IleGlyTrpLeu TyrIleLeu·
451 TCAGTGATGA CAGGTTTCAT TATCGGGATG ATCGGTTGGC TATATATTCT
    ·TyrGluIle PheAlaGlyGlu AlaSerLys AlaAsnAla SerSerGlySer·
501 TTACGAAATC TTTGCTGGTG AAGCTAGTAA AGCAAACGCT TCTAGTGGAA
    · AlaAlaCys GlnThrAla PheGlyAlaLeu ArgLeuIle ValThrVal
551 GCGCAGCATG CCAAACAGCA TTTGGTGCGT TACGTTTAAT CGTTACAGTT
    GlyTrpAlaIle TyrProIle GlyTyrPhe ValGlyTyrLeu ThrGlyGly·
601 GGTTGGGCGA TCTATCCAAT AGGATACTTC GTAGGCTATC TAACTGGTGG
    ·GlyAlaAsp AlaAlaThrLeu AsnIleVal TyrAsnLeu AlaAspPheVal·
651 TGGTGCAGAC GCAGCTACAC TAAACATAGT TTACAACTTA GCTGATTTTG
    · AsnLysIle AlaPheGly LeuIleIleTrp AlaAlaAla ValLysGlu
701 TAAACAAAAT TGCCTTTGGT TTAATCATAT GGGCAGCAGC TGTTAAAGAA
    SerSerAsnAla
751 TCTTCTAATG CTA
```

Figure 1-79

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      MetLysLeuLeu LeuIleLeu GlySerAla IleAlaLeuPro SerPheAla·
   1  ATGAAATTAT TATTGATCTT AGGTAGTGCT ATTGCACTTC CATCATTTGC
      ·AlaAlaGly GlyAspLeuAsp IleSerAsp ThrValGly ValSerPheTrp·
  51  TGCTGCTGGT GGCGATCTAG ATATAAGTGA TACTGTTGGT GTTTCATTCT
      · LeuValThr AlaGlyMet LeuAlaAlaThr ValPhePhe PheValGlu
 101  GGCTGGTTAC AGCTGGTATG TTAGCGGCAA CTGTGTTCTT TTTTGTAGAA
      ArgAspGlnVal SerAlaLys TrpLysThr SerLeuThrVal SerGlyLeu·
 151  AGAGACCAAG TCAGCGCTAA GTGGAAAACT TCACTTACTG TATCTGGTTT
      ·IleThrGly IleAlaPheTrp HisTyrLeu TyrMetArg GlyValTrpIle·
 201  AATTACTGGT ATAGCTTTTT GGCATTATCT CTATATGAGA GGTGTTTGGA
      · AspThrGly AspThrPro ThrValPheArg TyrIleAsp TrpLeuLeu
 251  TAGACACTGG TGATACCCCA ACAGTATTCA GATATATTGA TTGGTTATTA
      ThrValProLeu GlnMetVal GluPheTyr LeuIleLeuAla AlaCysThr·
 301  ACTGTTCCAT TACAAATGGT TGAGTTCTAT CTAATTCTTG CTGCTTGTAC
      ·SerValAla AlaSerLeuPhe LysLysLeu LeuAlaGly SerLeuValMet·
 351  AAGTGTTGCT GCTTCATTAT TTAAGAAGCT TCTAGCTGGT TCATTAGTAA
      · LeuGlyAla GlyPheAla GlyGluAlaGly LeuAlaPro ValLeuPro
 401  TGTTAGGTGC TGGATTTGCA GGCGAAGCTG GATTAGCTCC TGTATTACCT
      AlaPheIleIle GlyMetAla GlyTrpLeu TyrMetIleTyr GluLeuTyr·
 451  GCTTTCATTA TTGGTATGGC TGGATGGTTA TACATGATTT ATGAGCTATA
      ·MetGlyGlu GlyLysAlaAla ValSerThr AlaSerPro AlaValAsnSer·
 501  TATGGGTGAA GGTAAGGCTG CTGTAAGTAC TGCAAGTCCT GCTGTTAACT
      · AlaTyrAsn AlaMetMet MetIleIleVal ValGlyTrp AlaIleTyr
 551  CTGCATACAA CGCAATGATG ATGATTATTG TTGTTGGATG GGCAATTTAT
      ProAlaGlyTyr AlaAlaGly TyrLeuMet GlyGlyGluGly ValTyrAla·
 601  CCTGCTGGAT ATGCTGCTGG TTACCTAATG GGTGGCGAAG GTGTATACGC
      ·SerAsnLeu AsnLeuIleTyr AsnLeuAla AspPheVal AsnLysIleLeu·
 651  TTCAAACTTA AACCTTATAT ATAACCTTGC TGACTTTGTT AACAAGATTC
      · PheGlyLeu IleIleTrp AsnValAlaVal LysGluSer SerAsnAla
 701  TATTTGGTTT GATCATTTGG AATGTTGCAG TTAAAGAATC TAGTAATGCT
```

Figure 1-80

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    MetLysValLeu MetLeuAsn ProGlyAsp HisValAlaIle SerPheTrp·
  1 ATGAAAGTAT TAATGCTAAA TCCCGGAGAT CACGTTGCGA TTTCGTTTTG
    ·LeuIleSer MetAlaMetVal AlaAlaThr AlaPhePhe PheLeuGluArg·
 51 GTTGATCTCT ATGGCCATGG TTGCCGCTAC TGCTTTCTTC TTTCTTGAAA
    · AspArgVal AlaAlaLys TrpLysThrSer LeuThrVal AlaGlyLeu
101 GAGATCGTGT AGCAGCTAAA TGGAAAACGT CCCTTACAGT AGCTGGTTTA
    ValThrGlyIle AlaAlaTrp HisTyrPhe TyrMetArgGly ValTrpVal·
151 GTTACTGGTA TTGCGGCGTG GCACTACTTC TACATGAGAG GCGTATGGGT
    ·AlaThrGly AspSerProThr ValLeuArg TyrIleAsp TrpLeuIleThr·
201 TGCTACTGGT GACTCACCAA CTGTCCTTCG TTACATTGAC TGGTTGATTA
    · ValProLeu GlnIleVal GluPheTyrVal IleLeuAla AlaMetThr
251 CTGTGCCTCT ACAAATCGTA GAATTCTACG TAATTCTTGC AGCGATGACT
    AlaValAlaSer SerLeuPhe TrpArgLeu LeuIleAlaSer IleIleMet·
301 GCTGTTGCTT CAAGCCTTTT CTGGAGACTA TTAATTGCAT CAATTATTAT
    ·LeuValPhe GlyTyrMetGly GluThrGly AlaMetAsn ValThrLeuAla·
351 GCTTGTCTTT GGTTACATGG GTGAAACTGG AGCGATGAAT GTAACTCTAG
    · PheValIle GlyMetAla GlyTrpLeuTyr IleIleTyr GluValPhe
401 CCTTCGTAAT AGGTATGGCT GGATGGTTAT ACATCATCTA CGAGGTTTTT
    AlaGlyGluAla SerLysAla SerAlaGly SerGlyAsnAla AlaGlyGln·
451 GCAGGTGAAG CAAGCAAGGC AAGTGCTGGT AGTGGAAACG CTGCTGGTCA
    ·ThrAlaPhe AsnAlaLeuArg LeuIleVal ThrValGly TrpAlaIleTyr·
501 GACTGCATTT AACGCATTGA GATTAATTGT TACAGTAGGA TGGGCAATTT
    · ProIleGly TyrAlaVal GlyTyrPheGly GlyGlyVal AspAlaGly
551 ATCCAATTGG TTATGCTGTA GGTTACTTCG GTGGTGGCGT AGACGCCGGT
    SerLeuAsnLeu IleTyrAsn LeuAlaAsp PheValAsnLys IleAlaPhe·
601 TCATTGAACT TAATCTATAA CCTTGCAGAC TTTGTTAATA AAATTGCATT
    ·GlyMetAla IleTyrValAla AlaValSer AspSerAsn
651 TGGTATGGCT ATTTATGTAG CTGCAGTATC AGACAGCAAC
```

Figure 1-81

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     MetLysLeuLeu LeuIleLeu GlySerVal IleAlaLeuPro ThrPheAla·
   1 ATGAAATTAT TACTGATATT AGGTAGTGTT ATTGCACTTC CTACATTTGC
     ·AlaGlyGly GlyAspLeuAsp AlaSerAsp TyrThrGly ValSerPheTrp·
  51 TGCAGGTGGT GGTGACCTTG ATGCTAGTGA TTACACTGGT GTTTCTTTTT
     · LeuValThr AlaAlaLeu LeuAlaSerThr ValPhePhe PheValGlu
 101 GGTTAGTTAC TGCTGCTTTA TTAGCATCTA CTGTATTTTT CTTTGTTGAA
     ArgAspArgVal SerAlaLys TrpLysThr SerLeuThrVal SerGlyLeu·
 151 AGAGATAGAG TTTCTGCAAA ATGGAAAACA TCATTAACTG TATCTGGTCT
     ·ValThrGly IleAlaPheTrp LysTyrMet TyrMetArg GlyValTrpIle·
 201 TGTTACTGGT ATTGCTTTCT GGAAATACAT GTACATGAGA GGGGTATGGA
     · GluThrGly AspSerPro ThrValPheArg TyrIleAsp TrpLeuLeu
 251 TTGAAACTGG TGATTCGCCA ACTGTATTTA GATACATTGA TTGGTTACTA
     ThrValProLeu LeuIleCys GluPheTyr LeuIleLeuAla AlaAlaThr·
 301 ACAGTTCCTC TATTAATATG TGAATTCTAC TTAATTCTTG CTGCTGCAAC
     ·AsnValAla GlySerLeuPhe LysLysLeu LeuValGly SerLeuValMet·
 351 TAATGTTGCT GGATCATTAT TTAAGAAATT ACTAGTTGGT TCTCTTGTTA
     · LeuValPhe GlyTyrMet GlyGluAlaGly IleMetAla AlaTrpPro
 401 TGCTTGTGTT TGGTTACATG GGTGAAGCAG GAATCATGGC TGCATGGCCT
     AlaPheIleIle GlyCysLeu AlaTrpVal TyrMetIleTyr GluLeuTrp·
 451 GCATTCATTA TTGGGTGTTT AGCTTGGGTA TACATGATTT ATGAATTATG
     ·AlaGlyGlu GlyLysSerAla CysAsnThr AlaSerPro AlaValGlnSer·
 501 GGCTGGAGAA GGAAAATCTG CATGTAATAC TGCAAGTCCT GCTGTGCAAT
     · AlaTyrAsn ThrMetMet TyrIleIleIle PheGlyTrp AlaIleTyr
 551 CAGCTTACAA CACAATGATG TATATTATCA TCTTTGGTTG GGCGATTTAT
     ProValGlyTyr PheThrGly TyrLeuMet GlyAspGlyGly SerAlaLeu·
 601 CCTGTAGGTT ATTTCACAGG TTACCTGATG GGTGACGGTG GATCAGCTCT
     ·AsnLeuAsn LeuIleTyrAsn LeuAlaAsp PheValAsn LysIleLeuPhe·
 651 TAACTTAAAC CTTATCTATA ACCTTGCTGA CTTTGTTAAC AAGATTCTAT
     · GlyLeuIle IleTrpAsn ValAlaValLys GluSerSer AsnAla***
 701 TTGGTTTAAT TATATGGAAT GTTGCTGTTA AAGAATCTTC TAATGCTTAA
```

Figure 2-1

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     MetLysLeuLeu LeuIleLeu GlySerVal IleAlaLeuPro ThrPheAla·
   1 ATGAAATTAT TACTGATATT AGGTAGTGTT ATTGCACTTC CTACATTTGC
     ·AlaGlyGly GlyAspLeuAsp AlaSerAsp TyrThrGly ValSerPheTrp·
  51 TGCAGGTGGT GGTGACCTTG ATGCTAGTGA TTACACTGGT GTTTCTTTTT
     · LeuValThr AlaAlaLeu LeuAlaSerThr ValPhePhe PheValGlu
 101 GGTTAGTTAC TGCTGCTTTA TTAGCATCTA CTGTATTTTT CTTTGTTGAA
     ArgAspArgVal SerAlaLys TrpLysThr SerLeuThrVal SerGlyLeu·
 151 AGAGATAGAG TTTCTGCAAA ATGGAAAACA TCATTAACTG TATCTGGTCT
     ·ValThrGly IleAlaPheTrp AsnTyrMet TyrMetArg GlyValTrpIle·
 201 TGTTACTGGT ATTGCTTTCT GGAATTACAT GTACATGAGA GGGGTATGGA
     · GluThrGly AspSerPro ThrValPheArg TyrIleAsp TrpLeuLeu
 251 TTGAAACTGG TGATTCGCCA ACTGTATTTA GATACATTGA TTGGTTACTA
     ThrValProLeu LeuIleCys GluPheTyr LeuIleLeuAla AlaAlaThr·
 301 ACAGTTCCTC TATTAATATG TGAATTCTAC TTAATTCTTG CTGCTGCAAC
     ·AsnValAla GlySerLeuPhe LysLysLeu LeuValGly SerLeuValMet·
 351 TAATGTTGCT GGATCATTAT TTAAGAAATT ACTAGTTGGT TCTCTTGTTA
     · LeuValPhe GlyTyrMet GlyGluAlaGly IleMetAla AlaTrpPro
 401 TGCTTGTGTT TGGTTACATG GGTGAAGCAG GAATCATGGC TGCATGGCCT
     AlaPheIleIle GlyCysLeu AlaTrpVal TyrMetIleTyr GluLeuTrp·
 451 GCATTCATTA TTGGGTGTTT AGCTTGGGTA TACATGATTT ATGAATTATG
     ·AlaGlyGlu GlyLysSerAla CysAsnThr AlaSerPro AlaValGlnSer·
 501 GGCTGGAGAA GGAAAATCTG CATGTAATAC TGCAAGTCCT GCTGTGCAAT
     · AlaTyrAsn ThrMetMet TyrIleIleIle PheGlyTrp AlaIleTyr
 551 CAGCTTACAA CACAATGATG TATATTATCA TCTTTGGTTG GGCGATTTAT
     ProValGlyTyr PheThrGly TyrLeuMet GlyAspGlyGly SerAlaLeu·
 601 CCTGTAGGTT ATTTCACAGG TTACCTGATG GGTGACGGTG GATCAGCTCT
     ·AsnLeuAsn LeuIleTyrAsn LeuAlaAsp PheValAsn LysIleLeuPhe·
 651 TAACTTAAAC CTTATCTATA ACCTTGCTGA CTTTGTTAAC AAGATTCTAT
     · GlyLeuIle IleTrpAsn ValAlaValLys GluSerSer AsnAla***
 701 TTGGTTTAAT TATATGGAAT GTTGCTGTTA AAGAATCTTC TAATGCTTAA
```

Figure 2-2

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    MetLysLeuLeu LeuIleLeu GlySerVal IleAlaLeuPro ThrPheAla·
  1 ATGAAATTAT TACTGATATT AGGTAGTGTT ATTGCACTTC CTACATTTGC
    ·AlaGlyGly GlyAspLeuAsp AlaSerAsp TyrThrGly ValSerPheTrp·
 51 TGCAGGTGGT GGTGACCTTG ATGCTAGTGA TTACACTGGT GTTTCTTTTT
    · LeuValThr AlaAlaLeu LeuAlaSerThr ValPhePhe PheValGlu
101 GGTTAGTTAC TGCTGCTTTA TTAGCATCTA CTGTATTTTT CTTTGTTGAA
    ArgAspArgVal SerAlaLys TrpLysThr SerLeuThrVal SerGlyLeu·
151 AGAGATAGAG TTTCTGCAAA ATGGAAAACA TCATTAACTG TATCTGGTCT
    ·ValThrGly IleAlaPheTrp GlnTyrMet TyrMetArg GlyValTrpIle·
201 TGTTACTGGT ATTGCTTTCT GGCAGTACAT GTACATGAGA GGGGTATGGA
    · GluThrGly AspSerPro ThrValPheArg TyrIleAsp TrpLeuLeu
251 TTGAAACTGG TGATTCGCCA ACTGTATTTA GATACATTGA TTGGTTACTA
    ThrValProLeu LeuIleCys GluPheTyr LeuIleLeuAla AlaAlaThr·
301 ACAGTTCCTC TATTAATATG TGAATTCTAC TTAATTCTTG CTGCTGCAAC
    ·AsnValAla GlySerLeuPhe LysLysLeu LeuValGly SerLeuValMet·
351 TAATGTTGCT GGATCATTAT TTAAGAAATT ACTAGTTGGT TCTCTTGTTA
    · LeuValPhe GlyTyrMet GlyGluAlaGly IleMetAla AlaTrpPro
401 TGCTTGTGTT TGGTTACATG GGTGAAGCAG GAATCATGGC TGCATGGCCT
    AlaPheIleIle GlyCysLeu AlaTrpVal TyrMetIleTyr GluLeuTrp·
451 GCATTCATTA TTGGGTGTTT AGCTTGGGTA TACATGATTT ATGAATTATG
    ·AlaGlyGlu GlyLysSerAla CysAsnThr AlaSerPro AlaValGlnSer·
501 GGCTGGAGAA GGAAAATCTG CATGTAATAC TGCAAGTCCT GCTGTGCAAT
    · AlaTyrAsn ThrMetMet TyrIleIleIle PheGlyTrp AlaIleTyr
551 CAGCTTACAA CACAATGATG TATATTATCA TCTTTGGTTG GGCGATTTAT
    ProValGlyTyr PheThrGly TyrLeuMet GlyAspGlyGly SerAlaLeu·
601 CCTGTAGGTT ATTTCACAGG TTACCTGATG GGTGACGGTG GATCAGCTCT
    ·AsnLeuAsn LeuIleTyrAsn LeuAlaAsp PheValAsn LysIleLeuPhe·
651 TAACTTAAAC CTTATCTATA ACCTTGCTGA CTTTGTTAAC AAGATTCTAT
    · GlyLeuIle IleTrpAsn ValAlaValLys GluSerSer AsnAla***
701 TTGGTTTAAT TATATGGAAT GTTGCTGTTA AAGAATCTTC TAATGCTTAA
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Figure 2-3

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    ThrMetGlyLys LeuLeuLeu IleLeuGly SerAlaIleAla LeuProSer·
  1 ACCATGGGTA AATTATTACT GATATTAGGT AGTGCTATTG CACTTCCATC
    ·PheAlaAla AlaGlyGlyAsp LeuAspIle SerAspThr ValGlyValSer·
 51 ATTTGCTGCT GCTGGTGGCG ATCTAGATAT AAGTGATACT GTTGGTGTTT
    · PheTrpLeu ValThrAla GlyMetLeuAla AlaThrVal PhePhePhe
101 CATTCTGGCT GGTTACAGCT GGTATGTTAG CGGCAACTGT GTTCTTTTTT
    ValGluArgAsp GlnValSer AlaLysTrp LysThrSerLeu AlaValSer·
151 GTAGAAAGAG ACCAAGTCAG CGCTAAGTGG AAAACTTCAC TTGCTGTATC
    ·GlyLeuIle ThrGlyIleAla PheTrpLys TyrLeuTyr MetArgGlyVal·
201 TGGTTTAATT ACTGGTATAG CTTTTTGGAA ATATCTCTAT ATGAGAGGTG
    · TrpIleAsp ThrGlyAsp ThrProThrVal PheArgTyr IleAspTrp
251 TTTGGATAGA CACTGGTGAT ACCCCAACAG TATTCAGATA TATTGATTGG
    LeuLeuThrVal ProLeuGln MetValGlu PheTyrLeuIle LeuAlaAla·
301 TTATTAACTG TTCCATTACA AATGGTTGAG TTCTATCTAA TTCTTGCTGC
    ·CysThrSer ValAlaAlaSer LeuPheLys LysLeuLeu AlaGlySerLeu·
351 TTGTACAAGT GTTGCTGCTT CATTATTTAA GAAGCTTCTA GCTGGTTCAT
    · ValMetLeu GlyAlaGly PheAlaGlyGlu AlaGlyLeu AlaProVal
401 TAGTAATGTT AGGTGCTGGA TTTGCAGGCG AAGCTGGATT AGCTCCTGTA
    LeuProAlaPhe IleIleGly MetAlaGly TrpLeuTyrMet IleTyrGlu·
451 TTACCTGCTT TCATTATTGG TATGGCTGGA TGGTTATACA TGATTTATGA
    ·LeuTyrMet GlyGluGlyLys AlaAlaVal SerThrAla SerProAlaVal·
501 GCTATATATG GGTGAAGGTA AGGCTGCTGT AAGTACTGCA AGTCCTGCTG
    · AsnSerAla TyrAsnAla MetMetMetIle IleValVal GlyTrpAla
551 TTAACTCTGC ATACAACGCA ATGATGATGA TTATTGTTGT TGGATGGGCA
    IleTyrProAla GlyTyrAla AlaGlyTyr LeuMetGlyGly GluGlyVal·
601 ATTTATCCTG CTGGATATGC TGCTGGTTAC CTAATGGGTG GCGAAGGTGT
    ·TyrAlaSer AsnLeuAsnLeu IleTyrAsn LeuAlaAsp LeuValAsnLys·
651 ATACGCTTCA AACTTAAACC TTATATATAA CCTTGCCGAC CTTGTTAACA
    · IleLeuPhe GlyLeuIle IleTrpAsnVal AlaValLys GluSerSer
701 AGATTCTATT TGGTTTGATC ATTTGGAATG TTGCTGTTAA AGAATCTTCT
    AsnAla
751 AATGCT
```

Figure 2-4

```
    ThrMetGlyLys LeuLeuLeu IleLeuGly SerAlaIleAla LeuProSer·
  1 ACCATGGGTA AATTATTACT GATATTAGGT AGTGCTATTG CACTTCCATC
    ·PheAlaAla AlaGlyGlyAsp LeuAspIle SerAspThr ValGlyValSer·
 51 ATTTGCTGCT GCTGGTGGCG ATCTAGATAT AAGTGATACT GTTGGTGTTT
    · PheTrpLeu ValThrAla GlyMetLeuAla AlaThrVal PhePhePhe
101 CATTCTGGCT GGTTACAGCT GGTATGTTAG CGGCAACTGT GTTCTTTTTT
    ValGluArgAsp GlnValSer AlaLysTrp LysThrSerLeu AlaValSer·
151 GTAGAAAGAG ACCAAGTCAG CGCTAAGTGG AAAACTTCAC TTGCTGTATC
    ·GlyLeuIle ThrGlyIleAla PheTrpAsn TyrLeuTyr MetArgGlyVal·
201 TGGTTTAATT ACTGGTATAG CTTTTTGGAA TTATCTCTAT ATGAGAGGTG
    · TrpIleAsp ThrGlyAsp ThrProThrVal PheArgTyr IleAspTrp
251 TTTGGATAGA CACTGGTGAT ACCCCAACAG TATTCAGATA TATTGATTGG
    LeuLeuThrVal ProLeuGln MetValGlu PheTyrLeuIle LeuAlaAla·
301 TTATTAACTG TTCCATTACA AATGGTTGAG TTCTATCTAA TTCTTGCTGC
    ·CysThrSer ValAlaAlaSer LeuPheLys LysLeuLeu AlaGlySerLeu·
351 TTGTACAAGT GTTGCTGCTT CATTATTTAA GAAGCTTCTA GCTGGTTCAT
    · ValMetLeu GlyAlaGly PheAlaGlyGlu AlaGlyLeu AlaProVal
401 TAGTAATGTT AGGTGCTGGA TTTGCAGGCG AAGCTGGATT AGCTCCTGTA
    LeuProAlaPhe IleIleGly MetAlaGly TrpLeuTyrMet IleTyrGlu·
451 TTACCTGCTT TCATTATTGG TATGGCTGGA TGGTTATACA TGATTTATGA
    ·LeuTyrMet GlyGluGlyLys AlaAlaVal SerThrAla SerProAlaVal·
501 GCTATATATG GGTGAAGGTA AGGCTGCTGT AAGTACTGCA AGTCCTGCTG
    · AsnSerAla TyrAsnAla MetMetMetIle IleValVal GlyTrpAla
551 TTAACTCTGC ATACAACGCA ATGATGATGA TTATTGTTGT TGGATGGGCA
    IleTyrProAla GlyTyrAla AlaGlyTyr LeuMetGlyGly GluGlyVal·
601 ATTTATCCTG CTGGATATGC TGCTGGTTAC CTAATGGGTG GCGAAGGTGT
    ·TyrAlaSer AsnLeuAsnLeu IleTyrAsn LeuAlaAsp LeuValAsnLys·
651 ATACGCTTCA AACTTAAACC TTATATATAA CCTTGCCGAC CTTGTTAACA
    · IleLeuPhe GlyLeuIle IleTrpAsnVal AlaValLys GluSerSer
701 AGATTCTATT TGGTTTGATC ATTTGGAATG TTGCTGTTAA AGAATCTTCT
    AsnAla
751 AATGCT
```

Figure 2-5

```
    ThrMetGlyLys LeuLeuLeu IleLeuGly SerAlaIleAla LeuProSer·
  1 ACCATGGGTA AATTATTACT GATATTAGGT AGTGCTATTG CACTTCCATC
    ·PheAlaAla AlaGlyGlyAsp LeuAspIle SerAspThr ValGlyValSer·
 51 ATTTGCTGCT GCTGGTGGCG ATCTAGATAT AAGTGATACT GTTGGTGTTT
    · PheTrpLeu ValThrAla GlyMetLeuAla AlaThrVal PhePhePhe
101 CATTCTGGCT GGTTACAGCT GGTATGTTAG CGGCAACTGT GTTCTTTTTT
    ValGluArgAsp GlnValSer AlaLysTrp LysThrSerLeu AlaValSer·
151 GTAGAAAGAG ACCAAGTCAG CGCTAAGTGG AAAACTTCAC TTGCTGTATC
    ·GlyLeuIle ThrGlyIleAla PheTrpGln TyrLeuTyr MetArgGlyVal·
201 TGGTTTAATT ACTGGTATAG CTTTTTGGCA GTATCTCTAT ATGAGAGGTG
    · TrpIleAsp ThrGlyAsp ThrProThrVal PheArgTyr IleAspTrp
251 TTTGGATAGA CACTGGTGAT ACCCCAACAG TATTCAGATA TATTGATTGG
    LeuLeuThrVal ProLeuGln MetValGlu PheTyrLeuIle LeuAlaAla·
301 TTATTAACTG TTCCATTACA AATGGTTGAG TTCTATCTAA TTCTTGCTGC
    ·CysThrSer ValAlaAlaSer LeuPheLys LysLeuLeu AlaGlySerLeu·
351 TTGTACAAGT GTTGCTGCTT CATTATTTAA GAAGCTTCTA GCTGGTTCAT
    · ValMetLeu GlyAlaGly PheAlaGlyGlu AlaGlyLeu AlaProVal
401 TAGTAATGTT AGGTGCTGGA TTTGCAGGCG AAGCTGGATT AGCTCCTGTA
    LeuProAlaPhe IleIleGly MetAlaGly TrpLeuTyrMet IleTyrGlu·
451 TTACCTGCTT TCATTATTGG TATGGCTGGA TGGTTATACA TGATTTATGA
    ·LeuTyrMet GlyGluGlyLys AlaAlaVal SerThrAla SerProAlaVal·
501 GCTATATATG GGTGAAGGTA AGGCTGCTGT AAGTACTGCA AGTCCTGCTG
    · AsnSerAla TyrAsnAla MetMetMetIle IleValVal GlyTrpAla
551 TTAACTCTGC ATACAACGCA ATGATGATGA TTATTGTTGT TGGATGGGCA
    IleTyrProAla GlyTyrAla AlaGlyTyr LeuMetGlyGly GluGlyVal·
601 ATTTATCCTG CTGGATATGC TGCTGGTTAC CTAATGGGTG GCGAAGGTGT
    ·TyrAlaSer AsnLeuAsnLeu IleTyrAsn LeuAlaAsp LeuValAsnLys·
651 ATACGCTTCA AACTTAAACC TTATATATAA CCTTGCCGAC CTTGTTAACA
    · IleLeuPhe GlyLeuIle IleTrpAsnVal AlaValLys GluSerSer
701 AGATTCTATT TGGTTTGATC ATTTGGAATG TTGCTGTTAA AGAATCTTCT
    AsnAla
751 AATGCT
```

Figure 2-6

```
    ThrMetGlyLys LeuLeuLeu IleLeuGly SerAlaIleAla LeuProSer·
  1 ACCATGGGTA AATTATTACT GATATTAGGT AGTGCTATTG CACTTCCATC
    ·PheAlaAla AlaGlyGlyAsp LeuAspIle SerAspThr ValGlyValSer·
 51 ATTTGCTGCT GCTGGTGGCG ATCTAGATAT AAGTGATACT GTTGGTGTTT
    · PheTrpLeu ValThrAla GlyMetLeuAla AlaThrVal PhePhePhe
101 CATTCTGGCT GGTTACAGCT GGTATGTTAG CGGCAACTGT GTTCTTTTTT
    ValGluArgAsp GlnValSer AlaLysTrp LysThrSerLeu AlaValSer·
151 GTAGAAAGAG ACCAAGTCAG CGCTAAGTGG AAAACTTCAC TTGCTGTATC
    ·GlyLeuIle ThrGlyIleAla PheTrpGlu TyrLeuTyr MetArgGlyVal·
201 TGGTTTAATT ACTGGTATAG CTTTTTGGGA ATATCTCTAT ATGAGAGGTG
    · TrpIleAsp ThrGlyAsp ThrProThrVal PheArgTyr IleAspTrp
251 TTTGGATAGA CACTGGTGAT ACCCCAACAG TATTCAGATA TATTGATTGG
    LeuLeuThrVal ProLeuGln MetValGlu PheTyrLeuIle LeuAlaAla·
301 TTATTAACTG TTCCATTACA AATGGTTGAG TTCTATCTAA TTCTTGCTGC
    ·CysThrSer ValAlaAlaSer LeuPheLys LysLeuLeu AlaGlySerLeu·
351 TTGTACAAGT GTTGCTGCTT CATTATTTAA GAAGCTTCTA GCTGGTTCAT
    · ValMetLeu GlyAlaGly PheAlaGlyGlu AlaGlyLeu AlaProVal
401 TAGTAATGTT AGGTGCTGGA TTTGCAGGCG AAGCTGGATT AGCTCCTGTA
    LeuProAlaPhe IleIleGly MetAlaGly TrpLeuTyrMet IleTyrGlu·
451 TTACCTGCTT TCATTATTGG TATGGCTGGA TGGTTATACA TGATTTATGA
    ·LeuTyrMet GlyGluGlyLys AlaAlaVal SerThrAla SerProAlaVal·
501 GCTATATATG GGTGAAGGTA AGGCTGCTGT AAGTACTGCA AGTCCTGCTG
    · AsnSerAla TyrAsnAla MetMetMetIle IleValVal GlyTrpAla
551 TTAACTCTGC ATACAACGCA ATGATGATGA TTATTGTTGT TGGATGGGCA
    IleTyrProAla GlyTyrAla AlaGlyTyr LeuMetGlyGly GluGlyVal·
601 ATTTATCCTG CTGGATATGC TGCTGGTTAC CTAATGGGTG GCGAAGGTGT
    ·TyrAlaSer AsnLeuAsnLeu IleTyrAsn LeuAlaAsp LeuValAsnLys·
651 ATACGCTTCA AACTTAAACC TTATATATAA CCTTGCCGAC CTTGTTAACA
    · IleLeuPhe GlyLeuIle IleTrpAsnVal AlaValLys GluSerSer
701 AGATTCTATT TGGTTTGATC ATTTGGAATG TTGCTGTTAA AGAATCTTCT
    AsnAla
751 AATGCT
```

Figure 2-7

```
    ThrMetGlyLys LeuLeuLeu IleLeuGly SerAlaIleAla LeuProSer·
  1 ACCATGGGTA AATTATTACT GATATTAGGT AGTGCTATTG CACTTCCATC
    ·PheAlaAla AlaGlyGlyAsp LeuAspIle SerAspThr ValGlyValSer·
 51 ATTTGCTGCT GCTGGTGGCG ATCTAGATAT AAGTGATACT GTTGGTGTTT
    · PheTrpLeu ValThrAla GlyMetLeuAla AlaThrVal PhePhePhe
101 CATTCTGGCT GGTTACAGCT GGTATGTTAG CGGCAACTGT GTTCTTTTTT
    ValGluArgAsp GlnValSer AlaLysTrp LysThrSerLeu AlaValSer·
151 GTAGAAAGAG ACCAAGTCAG CGCTAAGTGG AAAACTTCAC TTGCTGTATC
    ·GlyLeuIle ThrGlyIleAla PheTrpTrp TyrLeuTyr MetArgGlyVal·
201 TGGTTTAATT ACTGGTATAG CTTTTTGGTG GTATCTCTAT ATGAGAGGTG
    · TrpIleAsp ThrGlyAsp ThrProThrVal PheArgTyr IleAspTrp
251 TTTGGATAGA CACTGGTGAT ACCCCAACAG TATTCAGATA TATTGATTGG
    LeuLeuThrVal ProLeuGln MetValGlu PheTyrLeuIle LeuAlaAla·
301 TTATTAACTG TTCCATTACA AATGGTTGAG TTCTATCTAA TTCTTGCTGC
    ·CysThrSer ValAlaAlaSer LeuPheLys LysLeuLeu AlaGlySerLeu·
351 TTGTACAAGT GTTGCTGCTT CATTATTTAA GAAGCTTCTA GCTGGTTCAT
    · ValMetLeu GlyAlaGly PheAlaGlyGlu AlaGlyLeu AlaProVal
401 TAGTAATGTT AGGTGCTGGA TTTGCAGGCG AAGCTGGATT AGCTCCTGTA
    LeuProAlaPhe IleIleGly MetAlaGly TrpLeuTyrMet IleTyrGlu·
451 TTACCTGCTT TCATTATTGG TATGGCTGGA TGGTTATACA TGATTTATGA
    ·LeuTyrMet GlyGluGlyLys AlaAlaVal SerThrAla SerProAlaVal·
501 GCTATATATG GGTGAAGGTA AGGCTGCTGT AAGTACTGCA AGTCCTGCTG
    · AsnSerAla TyrAsnAla MetMetMetIle IleValVal GlyTrpAla
551 TTAACTCTGC ATACAACGCA ATGATGATGA TTATTGTTGT TGGATGGGCA
    IleTyrProAla GlyTyrAla AlaGlyTyr LeuMetGlyGly GluGlyVal·
601 ATTTATCCTG CTGGATATGC TGCTGGTTAC CTAATGGGTG GCGAAGGTGT
    ·TyrAlaSer AsnLeuAsnLeu IleTyrAsn LeuAlaAsp LeuValAsnLys·
651 ATACGCTTCA AACTTAAACC TTATATATAA CCTTGCCGAC CTTGTTAACA
    · IleLeuPhe GlyLeuIle IleTrpAsnVal AlaValLys GluSerSer
701 AGATTCTATT TGGTTTGATC ATTTGGAATG TTGCTGTTAA AGAATCTTCT
    AsnAla
751 AATGCT
```

Figure 2-8

```
    ThrMetGlyLys LeuLeuLeu IleLeuGly SerAlaIleAla LeuProSer·
  1 ACCATGGGTA AATTATTACT GATATTAGGT AGTGCTATTG CACTTCCATC
    ·PheAlaAla AlaGlyGlyAsp LeuAspIle SerAspThr ValGlyValSer·
 51 ATTTGCTGCT GCTGGTGGCG ATCTAGATAT AAGTGATACT GTTGGTGTTT
    · PheTrpLeu ValThrAla GlyMetLeuAla AlaThrVal PhePhePhe
101 CATTCTGGCT GGTTACAGCT GGTATGTTAG CGGCAACTGT GTTCTTTTTT
    ValGluArgAsp GlnValSer AlaLysTrp LysThrSerLeu AlaValSer·
151 GTAGAAAGAG ACCAAGTCAG CGCTAAGTGG AAAACTTCAC TTGCTGTATC
    ·GlyLeuIle ThrGlyIleAla PheTrpHis TyrLeuTyr MetArgGlyVal·
201 TGGTTTAATT ACTGGTATAG CTTTTTGGCA TTATCTCTAT ATGAGAGGTG
    · TrpIleAsp ThrGlyAsp ThrProThrVal PheAlaTyr IleAspTrp
251 TTTGGATAGA CACTGGTGAT ACCCCAACAG TATTCGCATA TATTGATTGG
    LeuLeuThrVal ProLeuGln MetValGlu PheTyrLeuIle LeuAlaAla·
301 TTATTAACTG TTCCATTACA AATGGTTGAG TTCTATCTAA TTCTTGCTGC
    ·CysThrSer ValAlaAlaSer LeuPheLys LysLeuLeu AlaGlySerLeu·
351 TTGTACAAGT GTTGCTGCTT CATTATTTAA GAAGCTTCTA GCTGGTTCAT
    · ValMetLeu GlyAlaGly PheAlaGlyGlu AlaGlyLeu AlaProVal
401 TAGTAATGTT AGGTGCTGGA TTTGCAGGCG AAGCTGGATT AGCTCCTGTA
    LeuProAlaPhe IleIleGly MetAlaGly TrpLeuTyrMet IleTyrGlu·
451 TTACCTGCTT TCATTATTGG TATGGCTGGA TGGTTATACA TGATTTATGA
    ·LeuTyrMet GlyGluGlyLys AlaAlaVal SerThrAla SerProAlaVal·
501 GCTATATATG GGTGAAGGTA AGGCTGCTGT AAGTACTGCA AGTCCTGCTG
    · AsnSerAla TyrAsnAla MetMetMetIle IleValVal GlyTrpAla
551 TTAACTCTGC ATACAACGCA ATGATGATGA TTATTGTTGT TGGATGGGCA
    IleTyrProAla GlyTyrAla AlaGlyTyr LeuMetGlyGly GluGlyVal·
601 ATTTATCCTG CTGGATATGC TGCTGGTTAC CTAATGGGTG GCGAAGGTGT
    ·TyrAlaSer AsnLeuAsnLeu IleTyrAsn LeuAlaAsp LeuValAsnLys·
651 ATACGCTTCA AACTTAAACC TTATATATAA CCTTGCCGAC CTTGTTAACA
    · IleLeuPhe GlyLeuIle IleTrpAsnVal AlaValLys GluSerSer
701 AGATTCTATT TGGTTTGATC ATTTGGAATG TTGCTGTTAA AGAATCTTCT
    AsnAla
751 AATGCT
```

Figure 2-9

```
    ThrMetGlyLys LeuLeuLeu IleLeuGly SerAlaIleAla LeuProSer·
  1 ACCATGGGTA AATTATTACT GATATTAGGT AGTGCTATTG CACTTCCATC
    ·PheAlaAla AlaGlyGlyAsp LeuAspIle SerAspThr ValGlyValSer·
 51 ATTTGCTGCT GCTGGTGGCG ATCTAGATAT AAGTGATACT GTTGGTGTTT
    · PheTrpLeu ValThrAla GlyMetLeuAla AlaThrVal PhePhePhe
101 CATTCTGGCT GGTTACAGCT GGTATGTTAG CGGCAACTGT GTTCTTTTTT
    ValGluArgAsp GlnValSer AlaLysTrp LysThrSerLeu AlaValSer·
151 GTAGAAAGAG ACCAAGTCAG CGCTAAGTGG AAAACTTCAC TTGCTGTATC
    ·GlyLeuIle ThrGlyIleAla PheTrpHis TyrLeuTyr MetArgGlyVal·
201 TGGTTTAATT ACTGGTATAG CTTTTTGGCA TTATCTCTAT ATGAGAGGTG
    · TrpIleAsp ThrGlyAsp ThrProThrVal PheGluTyr IleAspTrp
251 TTTGGATAGA CACTGGTGAT ACCCCAACAG TATTCGAATA TATTGATTGG
    LeuLeuThrVal ProLeuGln MetValGlu PheTyrLeuIle LeuAlaAla·
301 TTATTAACTG TTCCATTACA AATGGTTGAG TTCTATCTAA TTCTTGCTGC
    ·CysThrSer ValAlaAlaSer LeuPheLys LysLeuLeu AlaGlySerLeu·
351 TTGTACAAGT GTTGCTGCTT CATTATTTAA GAAGCTTCTA GCTGGTTCAT
    · ValMetLeu GlyAlaGly PheAlaGlyGlu AlaGlyLeu AlaProVal
401 TAGTAATGTT AGGTGCTGGA TTTGCAGGCG AAGCTGGATT AGCTCCTGTA
    LeuProAlaPhe IleIleGly MetAlaGly TrpLeuTyrMet IleTyrGlu·
451 TTACCTGCTT TCATTATTGG TATGGCTGGA TGGTTATACA TGATTTATGA
    ·LeuTyrMet GlyGluGlyLys AlaAlaVal SerThrAla SerProAlaVal·
501 GCTATATATG GGTGAAGGTA AGGCTGCTGT AAGTACTGCA AGTCCTGCTG
    · AsnSerAla TyrAsnAla MetMetMetIle IleValVal GlyTrpAla
551 TTAACTCTGC ATACAACGCA ATGATGATGA TTATTGTTGT TGGATGGGCA
    IleTyrProAla GlyTyrAla AlaGlyTyr LeuMetGlyGly GluGlyVal·
601 ATTTATCCTG CTGGATATGC TGCTGGTTAC CTAATGGGTG GCGAAGGTGT
    ·TyrAlaSer AsnLeuAsnLeu IleTyrAsn LeuAlaAsp LeuValAsnLys·
651 ATACGCTTCA AACTTAAACC TTATATATAA CCTTGCCGAC CTTGTTAACA
    · IleLeuPhe GlyLeuIle IleTrpAsnVal AlaValLys GluSerSer
701 AGATTCTATT TGGTTTGATC ATTTGGAATG TTGCTGTTAA AGAATCTTCT
    AsnAla
751 AATGCT
```

Figure 2-10

```
      ThrMetGlyLys LeuLeuLeu IleLeuGly SerAlaIleAla LeuProSer·
    1 ACCATGGGTA AATTATTACT GATATTAGGT AGTGCTATTG CACTTCCATC
      ·PheAlaAla AlaGlyGlyAsp LeuAspIle SerAspThr ValGlyValSer·
   51 ATTTGCTGCT GCTGGTGGCG ATCTAGATAT AAGTGATACT GTTGGTGTTT
      · PheTrpLeu ValThrAla GlyMetLeuAla AlaThrVal PhePhePhe
  101 CATTCTGGCT GGTTACAGCT GGTATGTTAG CGGCAACTGT GTTCTTTTTT
      ValGluArgAsp GlnValSer AlaLysTrp LysThrSerLeu AlaValSer·
  151 GTAGAAAGAG ACCAAGTCAG CGCTAAGTGG AAAACTTCAC TTGCTGTATC
      ·GlyLeuIle ThrGlyIleAla PheTrpHis TyrLeuTyr MetArgGlyVal·
  201 TGGTTTAATT ACTGGTATAG CTTTTTGGCA TTATCTCTAT ATGAGAGGTG
      · TrpIleAsp ThrGlyAsp ThrProThrVal PheGlnTyr IleAspTrp
  251 TTTGGATAGA CACTGGTGAT ACCCCAACAG TATTCCAATA TATTGATTGG
      LeuLeuThrVal ProLeuGln MetValGlu PheTyrLeuIle LeuAlaAla·
  301 TTATTAACTG TTCCATTACA AATGGTTGAG TTCTATCTAA TTCTTGCTGC
      ·CysThrSer ValAlaAlaSer LeuPheLys LysLeuLeu AlaGlySerLeu·
  351 TTGTACAAGT GTTGCTGCTT CATTATTTAA GAAGCTTCTA GCTGGTTCAT
      · ValMetLeu GlyAlaGly PheAlaGlyGlu AlaGlyLeu AlaProVal
  401 TAGTAATGTT AGGTGCTGGA TTTGCAGGCG AAGCTGGATT AGCTCCTGTA
      LeuProAlaPhe IleIleGly MetAlaGly TrpLeuTyrMet IleTyrGlu·
  451 TTACCTGCTT TCATTATTGG TATGGCTGGA TGGTTATACA TGATTTATGA
      ·LeuTyrMet GlyGluGlyLys AlaAlaVal SerThrAla SerProAlaVal·
  501 GCTATATATG GGTGAAGGTA AGGCTGCTGT AAGTACTGCA AGTCCTGCTG
      · AsnSerAla TyrAsnAla MetMetMetIle IleValVal GlyTrpAla
  551 TTAACTCTGC ATACAACGCA ATGATGATGA TTATTGTTGT TGGATGGGCA
      IleTyrProAla GlyTyrAla AlaGlyTyr LeuMetGlyGly GluGlyVal·
  601 ATTTATCCTG CTGGATATGC TGCTGGTTAC CTAATGGGTG GCGAAGGTGT
      ·TyrAlaSer AsnLeuAsnLeu IleTyrAsn LeuAlaAsp LeuValAsnLys·
  651 ATACGCTTCA AACTTAAACC TTATATATAA CCTTGCCGAC CTTGTTAACA
      · IleLeuPhe GlyLeuIle IleTrpAsnVal AlaValLys GluSerSer
  701 AGATTCTATT TGGTTTGATC ATTTGGAATG TTGCTGTTAA AGAATCTTCT
      AsnAla
  751 AATGCT
```

Figure 2-11

```
                1                                                   50
      BAC31A8   ..MKLLLILG SVIALPTFAA GGGD....LD ASDYTGVSFW LVTAALLAST
      BAC40E8   TMGKLLLILG SVIALPTFAA GGGD....LD ASDYTGVSFW LVTAALLAST
      BAC64A5   TMGKLLLILG SVIALPTFAA GGGD....LD ASDYTGVSFW LVTAALLAST
       HOT0m1   TMGKLLLILG SVIALPTFAA GGGD....LD ASDYTGVSFW LVTAALLAST
      HOT75m1   TMGKLLLILG SAIALPSFAA AGGD....LD ISDTVGVSFW LVTAGMLAAT
      HOT75m3   TMGKLLLILG SAIALPSFAA AGGD....LD ISDTVGVSFW LVTAGMLAAT
      HOT75m4   TMGKLLLILG SAIALPSFAA AGGD....LD ISDTVGVSFW LVTAGMLAAT
      HOT75m8   TMGKLLLILG SAIALPSFAA AGGD....LD ISDTVGVSFW LVTAGMLAAT
        MB0m1   TMGKLLLILG SVIALPTFAA GGGD....LD ASDYTGVSFW LVTAALLAST
        MB0m2   TMGKLLLILG SVIALPTFAA GGGD....LD ASDYTGVSFW LVTAALLAST
     MB100m10   TMGKLLLILG SVIALPTFAA GGGD....LD ASDYTGVSFW LVTAALLAST
      MB100m5   TMGKLLLILG SVIALPTFAA GGGD....LD ASDYTGVSFW LVTAALLAST
      MB100m7   TMGKLLLILG SVIALPTFAA GGGD....LD ASDYTGVSFW LVTAALLAST
      MB100m9   TMGKLLLILG SVIALPTFAA GGGD....LD ASDYTGVSFW LVTAALLAST
      MB20m12   TMGKLLLILG SVIALPTFAA GGGD....LD ASDYTGVSFW LVTAALLAST
       MB20m2   TMGKLLLILG SVIALPTFAA GGGD....LD ASDYTGVSFW LVTAALLAST
       MB20m5   TMGKLLLILG SVIALPTFAA GGGD....LD ASDYTGVSFW LVTAALLAST
       MB40m1   TMGKLLLIIG SVIALPTFAA GGGD....LD ASDYTGVSFW LVTAALLAST
      MB40m12   TMGKLLRILG SVIALPTFAA GGGD....LD ASDYTGVSFW LVTAALLAST
       MB40m5   TMGKLLLILG SVIALPTFAA GGGD....LD ASDYTGVSFW LVTAALLAST
       MED101   .MGKLLLILG SVIALPTFAA GGGD....LD ASDYTGVSFW LVTAALLAST
       MED102   .MGKLLLILG SVIALPTFAA GGGD....LD ASDYTGVSFW LVTAALLAST
       MED106   .MGKLLLILG SVIALPTFAA GGGD....LD ASDYTGVSFW LVTAALLAST
       MED202   .MGKLLLILG SVIALPTFAA GGGD....LD ASDYTGVSFW LVTAALLAST
       MED204   .MGKLLLILG SVIALPTFAA GGGD....LD ASDYTGVSFW LVTAALLAST
       MED208   .MGKLLLILG SVIALPTFAA GGGD....LD ASDYTGVSFW LVTAALLAST
        MED25   .MGKLLLILG SVIALPTFAA GGGD....LD ASDYTGVSFW LVTAALLAST
        MED26   .MGKLLLILG SVIALPTFAA GGGD....LD ASDYTGVSFW LVTAALLAST
        MED27   .MGKLLLILG NVIALPTFAA GGGD....LD ASDYTGVSFW LVTAALLAST
        MED36   .MGKLLLILG SVIALPTFAA GGGD....LD ASDYTGVSFW LVTAALLAST
  medA15_r8_1   .MGKLLMMLG SVIALPSFAA SGGD....LD ASDYTGVSFG LVTAALLAST
  medA15_R8_3   .MGKLLMILG GVIALPSFAA SGGD....LD SSDLTGVSFW LVTAALLAAT
 medA15_r8ex7   .MGKLLLILG GVIALPSFAA SGGD....LD SSDLTGVSFW LVTAALLAAT
 medA15_R8ex9   .MGKLLLILG GVIALPSFAA SGGD....LD SSDLTGVSFW LVTAALLAAT
  medA15_r9_3   .MGKRLVILG GVIALPSFAA SGGD....LD SSDLTGVSFW LVTAALLAAT
  medA15r10b5   .MGKLLVILG GVIALPPFAA SGGD....LD SSDLTGVSFW LVTAALLAAT
  medA15r11b3   .MGKQLLILG SVIALPSFAA GGGD....LD ASDYTGVSFW LVTAALLAST
  medA15r11b9   .MGKALLMLG SVIALPTFAA GGGD....LD ASDYTGVSFW LVTAAPLAST
   medA15r8b3   .MGKLLLILG SVIALPSFAA GGGD....LD AGDYTGVSFW LVTAALLAST
   medA15r8b8   .SKKFFSTLL LVTSLPTLAL AGGHSSG.LA GDDYVGVTFW IISMAMVAST
   medA15r8b9   .MGKLLVMLG SVIALPSFAA GGGN....LD AADVTGVSFW LVTAALLAST
  medA15r8ex4   .SKKFFSTLL LVTSLPTLAL AGGHSSG.LA GDDYVGVTFW IISMAMVAST
  medA15r8ex6   .MGKLLVMLG SVIALPTFAA GGGD....LD ASDYTGVSFW LVTAALLAST
   medA15r9b5   .MGKGLLMLG SVIALPSFAA GGGD....LD ASDYTGVSFW LVTAALLAST
   medA15r9b7   .MGKQLLILG GVIALPSFAA SGGD....LD SSDLTGVSFW LVTAALLAAT
 medA17_r8_11   .SKKLLATFL VVTSIPAIAL AGGHSSGGLA GDDYVGVTFW IISMAMVAST
 medA17_r8_15   .SKKLLATFL VVTSIPAIAL AGGHSSGGLA GDDCVGVTFW IISMAMVAST
  medA17_R8_6   .MGKLLMILG GVIALPSFAA GGGD....LD IGDSVGVSFW LVTAAMLAAT
  medA17R9_1    .MGKGLLMLG SVIALPSFAA GGGN....LN AADVTGVSFW LVTAALLAST
 medA19_R8_16   .MGKLLVMLG GVIALPSFAA GGGD....LD IGDSVGVSFW LVTAAMLAAT
 medA19_R8_19   .MGKLLMILG GVIALPSFAA GGGD....LD IGDSVGVSFW LVTAAMLAAT
 medA19_R8_20   .MGKLLLILG GVIALPSFAA SGGD....LD SSDLTGVSFW LVTAALLAAT
  medA19_r9_9   .....LLILG GVIALPSFAA SGGD....LD SSDLTGVSFW LVTAALLAAT
        PalB1   TMGKLLLILG SAIALPSFAA AGGD....LD ISDTVGVSFW LVTAGMLAAT
        PalB2   TMGKLLLILG SAIALPSFAA AGGD....LD ISDTVGVSFW LVTAGMLAAT
        PalB5   TMGKLLLILG SAIALPSFAA AGGD....LD ISDTVGVSFW LVTAGMLAAT
        PalB6   TMGKLLLILG SAIALPSFAA AGGD....LD ISDTVGVSFW LVTAGMLAAT
        PalB7   TMGKLLLILG SAIALPSFAA AGGD....LD ISDTVGVSFW LVTAGMLAAT
        PalB8   TMGKLLLILG SAIALPSFAA AGGD....LD ISDTVGVSFW LVTAGMLAAT
        PalE1   TMGKLLLILG SAIALPSFAA AGGD....LD ISDTVGVSFW LVTAGMLAAT
        PalE6   TMGKLLLILG SAIALPSFAA AGGD....LD ISDTVGVSFW LVTAGMLAAT
```

Figure 3-1

```
       PalE7  TMGKLLLILG SAIALPSFAA AGGD....LD ISDTVGVSFW LVTAGMLAAT
       RED19  .MGKLLLILG SVIALPTFAA GGGD....LD ASDYTGVSFW LVTAALLAST
        RED2  .MGKLLLILG SVIALPTFAA GGGD....LD ASDYTGVSFW LVTAALLAST
       RED23  .MGKLLLILG SVIALPTFAA GGGD....LD ASDYTGVSFW LVTAALLAST
       RED27  .MGKLLLILG SVIALPTFAA GGGD....LD ASDYTGVSFW LVTAALLAST
       RED30  .MGKLLLILG SVIALPTFAA GGGD....LD ASDYTGVSFW LVTAALLAST
        RED4  .MGKLLLRLG SVIALPTFAA GGGD....LD ASDYTGVSFW LVTAALLAST
        RED5  .MGKLLLILG SVIALPTFAA GGGD....LD ASDYTGVSFW LVTAALLAST
       REDA9  .MGKLLLILG SVIALPTFAA GGGD....LD ASDYTGVSFW LVTAALLAST
       REDB9  .MGKLLLILG SVIALPTFAA GGGD....LD ASDYTGVSFW LVTAALLAST
       REDF9  .MGKLLLILG SVIALPTFAA GGGD....LD ASDYTGVSFW LVTAALLAST
  REDr6a5a14  .MGKLLLILG SVIALPTFAA GGGD....PD ASDYTGVSFW LVTAALLAST
   REDr6a5a6  .MGKLLLILG SVIALPTFAA GGGD....LD ASDYTGVSFW LVTAALLAST
  REDr7_1_15  .MGKLLLILG SVIALPTFAA GGGD....LD ASGYTGVSFW LVTAALLAST
  REDr7_1_16  .MGKRLVILG SVIALPTFAA GGGD....LD ASDYTGVSFW LVTAALLAST
   REDr7_1_4  .MGKLLLILG SVIALPTFAA GGGD....LD ASDYTGVSFW LVTAALLAST
    REDs3_15  .MGKLLLILG SVIALPTFAA GGGD....LD ASDYTGVSFW LVTAALLAST
     REDs3_7  .MGKLLLILG SVIALPTFAA GGGD....LD ASDYTGVSFW LVTAALLAST
    ANT32C12  ..MKLLLILG SAIALPSFAA AGGD....LD ISDTVGVSFW LVTAGMLAAT
     HOT2C02  .......... ....MKVLML NPGD..... ...HVAISFW LISMAMVAAT

              51                                                  100
      BAC31A8  VFFFVERDRV SAKWKTSLTV SGLVTGIAFW HYMYMRGVWI ETGDSP....
      BAC40E8  VFFFVERDRV SAKWKTSLTV SGLVTGIAFW HYMYMRGVWI ETGDSP....
      BAC64A5  VFFFVERDRV SAKWKTSLTV SGLVTGIAFW HYMYMRGVWI ETGDSP....
       HOT0m1  VFFFVERDRV SAKWKTSLTV SGLVTGIAFW HYMYMRGVWI ETGDSP....
      HOT75m1  VFFFVERDQV SAKWKTSLAV SGLITGIAFW HYLYMRGVWI DTGDTP....
      HOT75m3  VFFFVERDQV SAKWKTSLTV SGLITGIAFW HYLYMRGVWI DTGDTP....
      HOT75m4  VFFFVERDQV SAKWKTSLTV SGLITGIAFW HYLYMRGVWI DTGDTP....
      HOT75m8  VFFFVERDQV SAKWKTSLTV SGLITGIAFW HYLYMRGVWI DTGDTP....
        MB0m1  VFFFVERDRV SAKWKTSLTV SGLVTGIAFW HYMYMRGVWI ETGDSP....
        MB0m2  VFFFVERDRV SAKWKTSLTV SGLVTGIAFW HYMYMRGVWI ETGDSP....
     MB100m10  VFFFVERDRV SAKWKTSLTV SGLVTGIAFW HYMYMRGVWI ETGDSP....
      MB100m5  VFFFVERDRV SAKWKTSLTV SGLVTGIAFW HYMYMRGVWI ETGDSP....
      MB100m7  VFFFVERDRV SAKWKTSLTV SGLVTGIAFW HYMYMRGVWI ETGDSP....
      MB100m9  VFFFVERDRV SAKWKTSLTV SGLVTGIAFW HYMYMRGVWI ETGDSP....
      MB20m12  VFFFVERDRV SAKWKTSLTV SGLVTGIAFW HYMYMRGVWI ETGDSP....
       MB20m2  VFFFVERDRV SAKWKTSLTV SGLVTGIAFW HYMYMRGVWI ETGDSP....
       MB20m5  VFFFVERDRV SAKWKTSLTV SGLVTGIAFW HYMYMRGVWI ETGDSP....
       MB40m1  VFFFVERDRV SAKWKTSLTV SGLVTGIAFW HYMYMRGVWI ETGDSP....
      MB40m12  VFFFVERDRV SAKWKTSLTV SGLVTGIAFW HYMYMRGVWI ETGDSP....
       MB40m5  VFFFVERDRV SAKWKTSLTV SGLVTGIAFW HYMYMRGVWI ETGDSP....
       MED101  VFFFVERDRV SAKWKTSLTV SGLVTGIAFW HYMYMRGVWI ETGDSP....
       MED102  VFFFVERDRV SAKWKTSLTV SGLVTGIAFW HYMYMRGVWI ETGSSP....
       MED106  VFFFVERDRV SAKWKTSLTV SGLVTGIAFW HYMYMRGVWI ETGDSP....
       MED202  VFFFVERDRV SAKWKTSLTV SGLVTGIAFW HYMYMRGVWI ETGDSP....
       MED204  VFFFVERDRV SAKWKTSLTV SGLVTGIAFW HYMYMRGVWI ETGSSP....
       MED208  VFFFVERDRV SAKWKTSLTV SGLVTGIAFW HYMYMRGVWI ETGDSP....
        MED25  VFFFVERDRV SAKWKTSLTV SGLVTGIAFW HYMYMRGVWI ETGSSP....
        MED26  VFFFVERDRV SAKWKTSLTV SGLVTGIAFW HYMYMRGVWI ETGDSP....
        MED27  VFFFVERDRV SAKWKTSLTV SGLVTGIAFW HYMYMRGVWI ETGDSP....
        MED36  VFFFVERDRV SAKWKTSLTV SGLVTGIAFW HYMYMRGVWI ETGSSP....
  medA15_r8_1  VFFFVERDRV SAKWKTSLTV SGLVTGIAFW HYLYMRGVWV ETGETP....
  medA15_R8_3  VFFFVERDQV SAKWKTSLTV SGLVTGIAFW HYLYMRGVWI ETGETP....
 medA15_r8ex7  VFFFVERDQV SAKWKTSLTV SGLVTGIAFW HYLYMRGVWI ETGETP....
 medA15_R8ex9  VFFFVERDQV SAKWKTSLTV SGLVTGIAFW HYLYMRGVWI ETGETP....
  medA15_r9_3  VFFFVERDQV SAKWKTSLTV SGLVTGIAFW HYLYMRGVWI ETGETP....
 medA15r10b5  VFFFVERDQV SAKWKTSLTV SGLVTGIAFW HYLYMRGVWI ETGETP....
 medA15r11b3  VFFFIERDRV AAKWKTSLTV SGLVTGIAFW HYLYMRGVWV ETGESP....
 medA15r11b9  VFFFVERDRV SAKWKTSLTV SGLVTGIAFW HYMYMRGVWI ETGDSP....
  medA15r8b3  VFFFIERDRV AAKWKTSLTV SGLVTGIAFW HYMYMRGVWV ETGESP....
  medA15r8b8  VFFIVERDRV SSKWKTSLTV SALVTLIAAV HYFYMRDVWV ATGESP....
  medA15r8b9  VFFFIERDRV SAKWKTSLTV SGLVTGIAFW HYLYMRGVWV DSWTGP.GTG
```

Figure 3-2

```
 medA15r8ex4  VFFIVERDRV SSKWKTSLTV SALVTLIAAV HYFYMRDVWV ATGESP....
 medA15r8ex6  VFFFVERDRV SAKWKTSLTV SGLVTGIAFW HYMYMRGVWI ETGDSP....
  medA15r9b5  VFFFVERDRV AAKWKTSLTV SGLVTGIAFW HYMYMRGVWV ETGESP....
  medA15r9b7  VFFFVERDQV SAKWKTSLTV SGLVTGIAFW HYLYMRGVWI ETGETP....
medA17_r8_11  VFFIVERDRV SAKWKTSLTV SALVTLIAAV HYFYMRDVWV ATGESP....
medA17_r8_15  VFFIVERDRV SAKWKTSLTV SALMTLIAAV HYFYMRDVWV ATGESP....
 medA17_R8_6  VFFFVERDQV SAKWKTSLTV SGLITGIAFW HYLYMRGVWV ETGDSP....
  medA17R9_1  VFFFIERDRV SAKWKTSLTV SGLVTGIAFW HYLYMRGVWV DSWNPETGMG
medA19_R8_16  VFFFVERDQV SAKWKTSLTV SGLITGIAFW HYLYMRGVWI DTGGSP....
medA19_R8_19  VFFFVERDQV SAKWKTSLTV SGLITGIAFW HYLYMRGVWI DTGGSP....
medA19_R8_20  VFFFVERDQV SAKWKTSLTV SGLVTGIAFW HYLYMRGVWI ETGETP....
 medA19_r9_9  VFFFVERDQV SAKWKTSLTV SGLVTGIAFW HYLYMRGVWI ETGETP....
       PalB1  VFFFVERDQV SAKWKTSLTV SGLITGIAFW HYLYMRGVWI DTGDTP....
       PalB2  VFFFVERDQV SAEWKTSLTV SGLITGIAFW HYLYMRGVWI DTGDTP....
       PalB5  VFFFVERDQV SAKWKTSLTV SGLITGIAFW HYLYMRGVWI DTGDTP....
       PalB6  VFFFVERDQV SAKWKTSLTV SGLITGIAFW HYLYMRGVWI DTGDTP....
       PalB7  VFFFVERDQV SAKWKTSLTV SGLITGIAFW HYLYMRGVWI DTGDTP....
       PalB8  VFFFVERDQV SAKWKTSLTV SGLITGIAFW HYLYMRGVWI DTGDTP....
       PalE1  VFFFVERDQV SAKWKTSLTV SGLITGIAFW HYLYMRGVWI DTGDTP....
       PalE6  VFFFVERDQV SAKWKTSLTV SGLITGIAFW HYLYMRGVWI DTGDTP....
       PalE7  VFFFVERDQV SAKWKTSLTV SGLITGIAFW HYLYMRGVWI DTGDTP....
       RED19  VFFFVERDRV SAKWKTSLTV SGLVTGIAFW HYMYMRGVWI ETGDSP....
        RED2  VFFFVERDRV SAKWKTSLTV SGLVTGIAFW HYMYMRGVWI ETGDSP....
       RED23  VFFFVERDRV SAKWKTSLTV SGLVTGIAFW HYMYMRGVWI ETGDSP....
       RED27  VFFFVERDRV SAKWKTSLTV SGLVTGIAFW HYMYMRGVWI ETGDSP....
       RED30  VFFFVERDRV SAKWKTSLTV SGLVTGIAFW HYMYMRGVWI ETGSSP....
        RED4  VFFFVERDRV SAKWKTSLTV SGLVTGIAFW HYMYMRGVWI ETGDSP....
        RED5  VFFFVERDRV SAKWKTSLAV SGLITGIAFW HYMYMRGVWI ETGDSP....
       REDA9  VFFFVERDRV SAKWKTSLAV SGLITGIAFW HCMYMRGVWI ETGDSP....
       REDB9  VFSFVERDRV SAKWKTSLTV SGLITGIAFW HYMYMRGVWI ETGDSP....
       REDF9  VFFFVERDRV SAKWKTSLTV SGLITGIAFW HYMYMRGVWI ETGDSP....
  REDr6a5a14  VFFFVERDRV SAEWKTSLTV SGLVTGIAFW HYMYMRGVWI ETGDSP....
   REDr6a5a6  VFFFVERDRV SAKWKTSLTV SGLVTGIAFW HYMYMRGVWI ETGDSP....
  REDr7_1_15  VFFFVERDRV SAKWKTSLTV PGLITDIAFW HYMYMRGVWI ETGDSP....
  REDr7_1_16  VFFFVERDRV SAKWKTSLTV SGLVTGIAFW HYMYMRGVWI ETGDSP....
   REDr7_1_4  VFFFVERDRV SAKWKTSLTV PGLITDIAFW HYMYMRGVWI ETGDSP....
    REDs3_15  VFFFVERDRV SAKWKTSLTV PGLVTGIAFW HYMYMRGVWI ETGDSP....
     REDs3_7  VFFFVERDRV SAKWKTSLTV PGLITDIAFW HYMYMRGVWI ETGDSP....
    ANT32C12  VFFFVERDQV SAKWKTSLTV SGLITGIAFW HYLYMRGVWI DTGDTP....
     HOT2C02  AFFFLERDRV AAKWKTSLTV AGLVTGIAAW HYFYMRGVWV ATGDSP....

              101                                                 150
    BAC31A8  ...TVFRYID WLLTVPLLIC EFYLILAAAT NVAGSLFKKL LVGSLVMLVF
    BAC40E8  ...TVFRYID WLLTVPLLIC EFYLILAAAT NVAAGLFKKL LVGSLVMLVF
    BAC64A5  ...TVFRYID WLLTVPLLIC EFYLILAAAT NVAGSLFKKL LVGSLVMLVF
     HOT0m1  ...TVFRYID WLLTVPLLIC EFYLILAAAT NVAAGLFKKL LVGSLVMLVF
    HOT75m1  ...TVFRYID WLLTVPLQMV EFYLILAACT SVAASLFKKL LAGSLVMLGA
    HOT75m3  ...TVFRYID WLLTVPLQMV EFYLILAACT SVAASLFKKL LAGSLVMLGA
    HOT75m4  ...TVFRYID WLLTVPLQVV EFYLILAACT SVAASLFKKL LAGSLVMLGA
    HOT75m8  ...TVFRYID WLLTVPLQMV EFYLILAACT NVAASLFKKL LAGSLVMLGA
      MB0m1  ...TVFRYID WLLTVPLLIC EFYLILAAAT NVAAGLFKKL LVGSLVMLVF
      MB0m2  ...TVFRYID WLLTVPLLIC EFYLILAAAT NVAAGLFKKL LVGSLVMLVF
   MB100m10  ...TVFRYID WLLTVPLLIC EFYLILAAAT NVAGSLFKKL LVGSLVMLVF
    MB100m5  ...TVFRYID WLLTVPLLIC EFYLILAAAT NVAGSLFKKL LVGSLVMLVF
    MB100m7  ...TVFRYID WLLTVPLLIC EFYLILAAAT NVAGSLFKKL LVGSLVMLVF
    MB100m9  ...TVFRYID WLLTVPLLIC EFYLILAAAT NVAGSLFKKL LVGSLVMLVF
    MB20m12  ...TVFRYID WLLTVPLLIC EFYLILAAAA NVAGSLFKKL LVGSLVMLVF
     MB20m2  ...TVFRYID WLLTVPLLIC EFYLILAAAT NVAAGLFKKL LVGSLVMLVF
     MB20m5  ...TVFRYID WLLTVPLLIC EFYLILAAAT NVAGSLFKKL LVGSLVMLVF
     MB40m1  ...TVFRYID WLLTVPLLIC EFYLILAAAT NVAGSLFKKL LVGSLVMLVF
    MB40m12  ...TVFRYID WLLTVPLLIC EFYLILAAAT NVAGSLFKKL LVGSLVMLVF
     MB40m5  ...TVFRYID WLLTVPLLIC EFYLILAAAT NVAAGLFKKL LVGSLVMLVF
     MED101  ...TVFRYID WLLTVPLLIC EFYLILAAAT NVAGSLFKKL LVGSLVMLVF
```

Figure 3-3

```
       MED102  ...TVFRYID WLLTVPLLIC EFYLILAAAT NVAGSLFKKL LVGSLVMLVF
       MED106  ...TVFRYID WLLTVPLLIC EFYLILAAAT NVAGSLFKKL LVGSLVMLVF
       MED202  ...TVFRYID WLLTVPLLIC EFYLILAAAT NVAGSLFKKL LVGSLVMLVF
       MED204  ...TVFRYID WLLTVPLLIC EFYLILAAAT NVAGSLFKKL LVGSLVMLVF
       MED208  ...TVFRYID WLLTVPLLIC EFYLILAAAT NVAGSLFKKL LVGSLVMLVF
        MED25  ...TVFRYID WLLTVPLLIC EFYLILAAAT NVAGSLFKKL LVGSLVMLVF
        MED26  ...TVFRYID WLLTVPLLIC EFYLILAAAT NVAGSLFKKL LVGSLVMLVF
        MED27  ...TVFRYID WLLTVPLLIC EFYLILAAAT NVAGSLFKKL LVGSLVMLVF
        MED36  ...TVFRYID WLLTVPLLIC EFYLILAAAT NVAGSLFKKL LVGSLVMLVF
  medA15_r8_1  ...TVFRYID WLLTVPLLIC EFYLILAAAT NVAGSLFKKL LVGSLVMLVF
  medA15_R8_3  ...TVFRYID WLLTVPLLMV EFYLILAACT NVAGSLFKKL LGGSLVMLIA
 medA15_r8ex7  ...TVFRYID WLLTVPLLMV EFYLILAACT NVAGSLFKKL LIGSLVMLIA
 medA15_R8ex9  ...TVFRYID WLLTVPLLMV EFYLILAACT NVAGSLFKKL LIGSLVMLIA
  medA15_r9_3  ...TVFRYID WLLTVPLLMV EFYLILAACT NVAGSLFKKL LIGSLVMLIA
 medA15r10b5   ...TVFRYID WLLTVPLLMV EFYLILAACT NVAGSLFKKL LGGSLVMLIA
 medA15r11b3   ...TVFRYID WLLTVPLLIC EFYLILAAAT NVAGSLFKKL LIGSLVMLVF
 medA15r11b9   ...TVFRYID WLLTVPLLIC EFYLILAAAT NVAGSLFKKL LVGSLVMLVF
  medA15r8b3   ...TVFRYID WLLTVPLLIC EFYLILAAAT NVAGSLFKKL LVGSLVMLVF
  medA15r8b8   ...TVFRYID WLLTVPLLMI EFYFILAAVT TVSSGIFWRL LIGTVVMLVG
  medA15r8b9  ESPTEFRYID WLLTVPLLIC EFYLILAAAT NVAGSLFKKL LVGSLVMLIA
 medA15r8ex4   ...TVFRYID WLLTVPLLMI EFYFILAAVT TVSSGIFWRL LIGTVVMLVG
 medA15r8ex6   ...TVFRYID WLLTVPLLIC EFYLILAAAT NVAGSLFKKL LVGSLVMLVF
  medA15r9b5   ...TVFRYID WLLTVPLLIC EFYLILAAAT NVAGSLFKKL LIGSLVMLVF
  medA15r9b7   ...TVFRYID WLLTVPLLMV EFYLILAACT NVAGSLFKKL LGGSLVMLIA
 medA17_r8_11  ...TVFRYID WLLTVPLLMI EFYFILAAVT TVSSGIFWRL LVGTVIMLVG
 medA17_r8_15  ...TVFRYID WLLTVPLLMI EFYFILAAVT TVSSGIFWRL LVGTVIMLVG
  medA17_R8_6  ...TVFRYID WLLTVPLQMV EFYLILAACT NVAGSLFKKL LIGSLVMLIG
  medA17R9_1  ESPTEFRYID WLLTVPLLIC EFYLILAAAT NVAGSLFKKL LVGSLVMLIA
 medA19_R8_16  ...TVFRYID WLLTVPLQMV EFYLILAACT NVAGSLFKKL LVGSLVMLGA
 medA19_R8_19  ...TVFRYID WLLTVPLQMV EFYLILAACT NVAGSLFKKL LVGSLVMLGA
 medA19_R8_20  ...TVFRYID WLLTVPLLMV EFYLILAACT NVAGSLFKKL LIGSLVMLIA
  medA19_r9_9  ...TVFRYID WLLTVPLLMV EFYLILAACT NVAGSLFKKL LGGSLVMLIA
        PalB1  ...TVFRYID WLLTVPLQMV EFYLILAACT SVAASLFKKL LAGSLVMLGA
        PalB2  ...TVFRYID WLLTVPLQMV EFYLILAACT SVAASLFKKL LAGSLVMLGA
        PalB5  ...TVFRYID WLLTVPLQMV EFYLILAACT NVAASLFKKL LAGSLVMLGA
        PalB6  ...TVFRYID WLLTVPLQMV EFYLILAACT NVAASLFKKL LAGSLVMLGA
        PalB7  ...TVFRYID WLLTVPLQMV EFYLILAACT SVAASLFKKL LAGSLVMLGA
        PalB8  ...TVFRYID WLLTVPLQMV EFYLILAACT SVAASLFKKL LAGSLVMLGA
        PalE1  ...TVFRYID WLLTVPLQVV EFYLILAACT SVAASLFKKL LAGSLVMLGA
        PalE6  ...TVFRYID WLLTVPLQMV EFYLILAACT SVAASLFKKL LAGSLVMLGA
        PalE7  ...TVFRYID WLLTVPLQMV EFYLILAACT SVAASLFKKL LAGSLVMLGA
       RED19  ...TVFRYID WLLTVPLLIC EFYLILAAAT NVAGSLFKKL LVGSLVMLVF
        RED2  ...TVFRYID WLLTVPLLIC EFYLILAAAT NVAGSLFKKL LVGSLVMLVF
       RED23  ...TVFRYID WLLPVPLAIC EFYLILAAAT NVAGSLFKKL LVGSLVMLVF
       RED27  ...TVFRYID WLLTVPLLIC EFYLILAAAT NVAGSLFKKL LVGSLVMLVF
       RED30  ...TVFRYID WLLTVPLLIC EFYLILAAAT NVAGSLFKKL LVGSLVMLVF
        RED4  ...TVFRYID WLLTVPLLIC EFYLILAAAT NVAGSLFKKL LVGSLVMLVF
        RED5  ...TVFRYID WLLTVPLLIC EFYLILAAAT NVAGSLFKKL LVGSLVMLVF
       REDA9  ...TVFRYID WLLTVPLLIC EFYLILAAAT NVAGSLFKKL LVGSLVMLVF
       REDB9  ...TVFRYID WLLTVPLLIC EFYLILAAAT NVAGSLFKKL LVGSLVMLVF
       REDF9  ...TVFRYID WLLTVPLLIC EFYLILAAAT NVAGSLFKKL LVGSLVMLVF
  REDr6a5a14  ...TVFRYID WLLTVPLEIC EFYLILAAAT NVAGSLFKKL LVGSLVMLVF
   REDr6a5a6  ...TVFRYID WLLTVPLVIC EFYLILAAAT NVAGSLFKKL LVGSLVMLVF
  REDr7_1_15  ...TVFRYID WLLTVSLQIC EFYLILAAAT NVAGSLFKKL LVGSLVMLVF
  REDr7_1_16  ...TVFRYID WLLTVPLLIC EFYLILAAAT NVAGSLFKKL LVGSLVMLVF
   REDr7_1_4  ...TVFRYID WLLTVPLQIC EFYLILAAAT NVAGSLFKKL LVGSLVMLVF
    REDs3_15  ...AVFRYID WLLTVPLEIC EFYLILAAAT NVAGSLFKKL LVGSLVMLVF
     REDs3_7  ...TVFRYID WLLTVPLQIC EFYLILAAAT NVAGSLFKKL LVGSLVMLVF
    ANT32C12  ...TVFRYID WLLTVPLQMV EFYLILAACT SVAASLFKKL LAGSLVMLGA
     HOT2C02  ...TVLRYID WLITVPLQIV EFYVILAAMT AVASSLFWRL LIASIIMLVF

              151                                                 200
    BAC31A8  GYMGEAGIMA AWPAFIIGCL AWVYMIYELW AGEG.KSACN TASPAVQSAY
```

Figure 3-4

```
      BAC40E8  GYMGEAGIMN AWGAFVIGCL AWVYMIYELW AGEG.KAACN TASPAVQSAY
      BAC64A5  GYMGEAGIMA AWPAFIIGCL AWVYMIYELY AGEG.KSACN TASPSVQSAY
       HOT0m1  GYMGEAGIMN AWGAFVIGCL AWVYMIYELW AGEG.KAACN TASPAVQSAY
      HOT75m1  GFAGEAGLAP VLPAFIIGMA GWLYMIYELY MGEG.KAAVS TASPAVNSAY
      HOT75m3  GFAGEAGLAP VLPAFIIGMA GWLYMIYELH MGEG.KAAVS TASPAVNSAY
      HOT75m4  GFAGEAGLAP VLPAFIIGMA GWLYMIYELY MGEG.KAAVS TASPAVNSAY
      HOT75m8  GFAGEAGLAP VWPAFIIGMA GWLYMIYELY MGEG.KAAVS TASPAVNSAY
        MB0m1  GYMGEAGIMN AWPAFIIGCL AWVYMIYELY AGEG.KSACN TASPSVQSAY
        MB0m2  GYMGEAGIMN AWGAFVIGCL AWVYMIYELW LGEG.KAACN TASPAVQSAY
     MB100m10  GYMGEAGIMA AWPAFIVGCL AWVYMIYELW AGEG.KSACN TASPAVQSAY
      MB100m5  GYMGEAGIMA AWPAFIIGCL AWVYMIYELY AGEG.KSACN TASPSVQSAY
      MB100m7  GYMGEAGIMA AWPAFIIGCL AWVYMIYELY AGEG.KSACN TASPSVQSAY
      MB100m9  GYMGEAGIMA AWPAFIIGCL AWVYMIYELW AGEG.KSACN TASPAVQSAY
      MB20m12  GYMGEAGIMA AWPAFIIGCL AWVYMIYELW AGEG.KSACN TASPAVQSAY
       MB20m2  GYMGEAGIMN AWGAFVIGCL AWVYMIYELW AGEG.KAACN TASPAVQSAY
       MB20m5  GYMGEAQIMA AWPAFIIGCL AWVYMIYELY AGEG.KSACN TASPSVQSAY
       MB40m1  GYMGEAGIMA AWPAFIIGCL AWVYMIYELY AGEG.KSACN TASPAVQSAY
      MB40m12  GYMGEAGIMA AWPAFIIGCL AWVYMIYELW AGEG.KSACN TASPAVQSAY
       MB40m5  GYMGEAGIMN AWGAFVIGCL AWVYMIYELW AGEG.KAACN TASPAVQSAY
       MED101  GYMGEAGIMA AWPAFIIGCL AWVYMIYELW AGEG.KSACN TASPAVQSAY
       MED102  GYMGEAGIMA AWPAFIIGCL AWVYMIYELW AGEG.KSACN TASPAVQSAY
       MED106  GYMGEAGIMA AWPAFIIGCL AWVYMIYELW AGEG.KSACN TASPAVQSAY
       MED202  GYMGEAGIMA AWPAFIIGCL AWVYMIYELW AGEG.KSACN TASPAVQSAY
       MED204  GYMGEAGIMA AWPAFIIGCL AWVYMIYELW AGEG.KSACN TASPAVQSAY
       MED208  GYMGEAGIMA AWPAFIIGCL AWVYMIYELW AGEG.KSACN TASPAVQSAY
        MED25  GYMGEAGIMA AWPAFIIGCL AWVYMIYELW AGEG.KSACN TASPAVQSAY
        MED26  GYMGEAGIMA AWPAFIIGCL AWVYMIYELW AGEG.KSACN TASPAVQSAY
        MED27  GYMGEAGIMA AWPAFIIGCL AWVYMIYELW AGEG.KSACN TASPAVQSAY
        MED36  GYMGEAGIMA AWPAFIIGCL AWVYMIYELW AGEG.KSACN TASPAVQSAY
   medA15_r8_1  GYMGEAGIMA ALPAFIIGCL AWIYMIYELW AGEG.KSACN TASPAVQSAY
   medA15_R8_3  GYMGESGSLP VLPAFIVGCL AWFYMIYELY AGEG.KAAVT TASPAVMSAY
  medA15_r8ex7  GYMGESGSLP VLPAFLVGCA AWLYMIYELY AGEG.KAAVT TASPAVMSAY
  medA15_R8ex9  GYMGESGSLP VLPAFLVGCA AWLYMIYELY AGEG.KAAVT TASPAVMSAY
   medA15_r9_3  GYMGESGNLP VLPAFLIGCA AWLYMIYELY AGEG.KAAVT TASPAVMSAY
  medA15r10b5  GYMGESGSLP VLPAFIVGCL AWFYMIYELY AGEG.KAAVT TASPAVMSAY
  medA15r11b3  GYMGEAGIMA AWPAFIIGCL AWVYMIYELW AGEG.KSACN TASPAVQSAY
  medA15r11b9  GYMGEAGIMA AWPAFIIGCL AWVYMIYELW AGEG.KSACN TASPAVQSAY
   medA15r8b3  GYMGEAGIMA AWPAFIVGCL AWFYMIYELW AGEG.KSACN TASPAVQSAY
   medA15r8b8  GYMGEAGMIS VMTGFIIGMI GWLYILYEIF AGEASKANAS SGSAACQTAF
   medA15r8b9  GYMGESGNAN VMIAFVVGCL AWLYMIYELW AGEG.KAACN TASPAVQSAY
  medA15r8ex4  GYMGEAGMIS VMTGFIIGMI GWLYILYEIF AGEASKANAS SGSAACQTAF
  medA15r8ex6  GYMGEAGIMA AWPAFIIGCL AWVYMIYELW AGEG.KSACN TASPAVQSAY
   medA15r9b5  GYMGEAGIMA AWPAFIIGCL AWFYMIYELW AGEG.KSACN TASPAVQSAY
   medA15r9b7  GYMGESGSLP VLPAFIVGCL AWFYMIYELY AGEG.KAAVT TASPAVMSAY
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  medA17_r8_15  GYLGEAGMIS VMTGFIIGMI GWLYILYEIF AGEASKANAS SGSAACQTAF
   medA17_R8_6  GFLGEAGMID VTLAFVIGMA GWLYMIYELY MGEG.KAAVS TASPAVNSAY
   medA17R9_1  GYMGESGNAN VMIAFVVGCL AWLYMIYELW AGEG.KAACN TASPAVQSAY
  medA19_R8_16  GFAGEAGLAP ALPAFILGMA GWVYMIYELY MGEG.KAAVS TASPAVNSAY
  medA19_R8_19  GFAGEAGLAP ALPAFILGMA GWVYMIYELY MGEG.KAAVS TASPAVNSAY
  medA19_R8_20  GYMGESGSLP VLPAFLVGCA AWLYMIYELY AGEG.KAAVT TASPAVMSAY
   medA19_r9_9  GYMGESGSLP VLPAFIVGCL AWFYMIYELY AGEG.KAAVT TASPAVMSAY
         PalB1  GFAGEAGLAP VLPAFILGMA GWLYMIYELH MGEG.KAAVS TASPAVNSAY
         PalB2  GFAGEAGLAP VLPAFIIGMA GWLYMIYELY MGEG.KAAVS TASPAVNSAY
         PalB5  GFAGEAGLAP VWPAFIIGMA GWLYMIYELY MGEG.KAAVS TASPAVNSAY
         PalB6  GFAGEAGLAP VWPAFIIGMA GWLYMIYELY MGEG.KAAVS TASPAVNSAY
         PalB7  GSAGEAGLAP VLPAFIIGMA GWLYMIYELY MGEG.KAAVS TASPAVNSAY
         PalB8  GFAGEAGLAP VLPAFIIGMA GWLYMIYELY MGEG.KAAVS TASPAVNSAY
         PalE1  GFAGEAGLAP VLPAFIIGMA GWLYMIYELY MGEG.KAAVS TASPAVNPAY
         PalE6  GFAGEAGLAP VLPAFIIGMA GWLYMIYELH MGEG.KAAVS TASPAVNSAY
         PalE7  GFAGEAGLAP VLPAFIIGMA GWLYMIYELY MGEG.KAAVS TASPAVNSAY
         RED19  GYMGEAGIMA AWPAFIIGCL AWVYMIYELW AGEG.KSACN TASPAVQSAY
          RED2  GYMGEAGIMA AWPAFIIGCL AWVYMIYELW AGEG.KSACN TASPAVQSAY
```

Figure 3-5

```
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          RED27  GYMGEAGIMA AWPAFIIGCL AWVYMIYELW AGEG.KSACN TASPAVQSAY
          RED30  GYMGEAGIMA AWPAFIIGCL AWVYMIYELW AGEG.KSACN TASPAVQSAY
           RED4  GYMGEAGIMA AWPAFIIGCL AWVYMIYELW AGEG.KSACN TASPAVQSAY
           RED5  GYMGEAGIMA AWPAFIIGCL AWVYMIYELW AGEG.KSACN TASPAVQSAY
          REDA9  GYMGEAGIMA AWPAFIIGCL AWVYMIYELW AGEG.KSACN TASPAVQSAY
          REDB9  GYMGEAGIMA AWPAFIIGCL AWVYMIYELW AGEG.KSACN TASPAVQSAY
          REDF9  GYMGEAGIMA AWPAFIIGCL AWVYMIYELW AGEG.KSACN TASPAVQSAY
     REDr6a5a14  GYMGEAGIMA AWPAFIIGCL AWVYMIYELW AGEG.KSACN TASPAVQSAY
      REDr6a5a6  GYMGEAGIMA AWPAFIIGCL AWVYMIYELW AGEG.KSACN TASPAVQSAY
     REDr7_1_15  GYMGEAGIMA AWPAFIIGCL AWVYMIYELW AGEG.KSACN TASPAVQSAY
     REDr7_1_16  GYMGEAGIMA AWPAFIIGCL AWVYMIYELW AGEG.KSACN TASPAVQSAY
      REDr7_1_4  GYMGEAGIMA AWPAFIIGCL AWVYMIYELW AGEG.KSACN TASPAVQSAY
      REDs3_15   GYMGEAGIMA AWPAFIIGCL AWVYMIYELW AGEG.KSACN TASPAVQSAY
       REDs3_7   GYMGEAGIMA AWPAFIIGCL AWVYMIYELW AGEG.KSACN TASPAVQSAY
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       HOT2C02   GYMGETGAMN VTLAFVIGMA GWLYIIYEVF AGEASKASAG SGNAAGQTAF

                 201                                                 250
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        BAC40E8  NTMMYIIIFG WAIYPVGYFT GYLMG..DGG SALNLNLIYD LADFVNKILF
        BAC64A5  NTMMAIIVFG WAIYPIGYFT GYLMG..DGG SALNLNLIYN LADFVNKILF
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        HOT75m1  NAMMMIIVVG WAIYPAGYAA GYLMGG.EGV YASNLNLIYN LADLVNKILF
        HOT75m3  NAMMKIIVIG WAIYPAGYAA GYLMSG.DGV YASNLNLIYN LADFVNKILF
        HOT75m4  NAMMMIIVVG WAIYPAGYAA GYLMGG.EGV YASNLNLIYN LADFVNKILF
        HOT75m8  NAMMVIIVVG WAIYPAGYAA GYLMGG.EGV YASNLNLIYN LADLVNKILF
          MB0m1  NTMMAIIVFG WAIYPVGYFT GYLMG..DGG SALNLNLIYN LADFVNKILF
          MB0m2  NTMMMIIIFG WAIYPVGYFT GYLMG..DGG SALNLNLIYN LADFVNKILF
       MB100m10  NTMMYIIIVG WAIYPVGYFT GYLMG..DGG SALNLNLIYN LADFVNKILF
        MB100m5  NTMMAIIVFG WAIYPVGYFT GYLMG..DGG SALNLNLIYN LADFVNKILF
        MB100m7  NTMMAIIVFG WAIYPVGYFT GYLMG..DGG SALNLNLIYN LADFVNKILF
        MB100m9  NTMMYIIIFG WAIYPVGYFT GYLMG..DGG SALNLNLIYN LADFVNKILF
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         MB20m2  NTMMYIIIFG WAIYPVGYFT GYLMG..DGG SALNLNLIYN LADFVNKILF
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         MB40m5  NTMMYIIIFG WAIYPVGYFT GYLMG..DGG SALNLNLIYN LADFVNKNLF
         MED101  NTMMYIIIVG WAIYPVGYFT GYLMG..DGG SALNLNLIYN LADFVNKILF
         MED102  NTMMYIIIAG WAIYPVGYFT GYLMG..DGG SALNLNLNYN LADFVNKILF
         MED106  NTMMYIIIVG WAIYPVGYFT GYLMG..DGG SALNLNLIYN LADFVNKILF
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          MED27  NTMMYIIIVG WAIYPVGYFT GYLMG..DGG SALNLNLIYN LADFVNKILF
          MED36  NTMMYIIIAG WAIYPVGYFT GYLMG..DGG SALNLNLIYN LADFVNKILF
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     medA15_r9_3 NTMMLIIVVG WAIYPAGYAA GYLMGG.DGV YAQNLNVIYN LADFVNKILF
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    medA15r11b9  NTMMYIIIFG WAIYLVGYFT GYLMG..DGG SALNLNLIYN LADFVNKILF
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     medA15r8b8  GALRLIVTVG WAIYPIGYFV GYLTGGG..A DAATLNIVYN LADFVNKIAF
     medA15r8b9  NTMMWIIIVG WAIYPAGYAA GYLMGG.ESV YASNLNLIYN LADFVNKILF
    medA15r8ex4  GALRLIVTVG WAIYPIGYFV GYLTGGG..A DAATLNIVYN LADFVNKIAF
    medA15r8ex6  NTMMYIIIFG WAIYPVGYFT GYLMG..DGG SALNLNLIYN LADFVNKILF
     medA15r9b5  NTMMYIIIIG WAIYPVGYFT GYLMG..DGG SALNLNLIYN LADFVNKILF
```

Figure 3-6

```
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 medA17_r8_15 GALRLIVTIG WAIYPLGYFL GYLGGG...A DPATLNIVYN LADFVNKIAF
  medA17_R8_6 NAMMLIIVVG WSIYPAGYVA GYLMGG.EGV YASNLNLIYN LADFINKILF
  medA17R9_1  NTMMWIIIVG WAIYPAGYAA GYLMGG.ESV YASNLNLIYN LADFVNKILF
 medA19_R8_16 NAMMMIIVFG WSIYPLGYVA GYLMG...AV DPSTLNLIYN LADFINKILF
 medA19_R8_19 NAMMMIIVFG WSIYPLGYVA GYLMG...AV DPSTLNLIYN LADFINKILF
 medA19_R8_20 NTMMLIIVVG WAIYPAGYAA GYLMGG.DGV YAQNLNVIYN LADFVNKILF
  medA19_r9_9 NTMMLIIVVG WAIYPAGYAA GYLMGG.DGV YAQNLNVIYN LADFVNKILF
        PalB1 NAMMKIIVIG WAIYPAGYAA GYLMSG.DGV YASNLNLIYN LADFVNKILF
        PalB2 NAMMMIIVVG WAIYPAGYAA GYLMGG.EGV YASNLNLIYN LADFVNKILF
        PalB5 NAMMMIIVVG WAIYPAGYAA GYLMGG.EGV YASNLNLIYN LADFVNKILF
        PalB6 NAMMVIIVVG WAIYPAGYAA GYLMGG.EGV YASNLNLIYN LADFVNKILF
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        PalE6 NAMMKIIVIG WAIYPAGYAA GYLMSG.DGV YASNLNLIYN LADFVNKILF
        PalE7 NAMMMIIVVG WAIYPAGYAA GYLMGG.EGV YASNLNLIYN LADFVNKILF
        RED19 NTMMYIIIVG WAIYPVGYFT GYLMG..DGG SALNLNLIYN LADFVNKILF
         RED2 NTMMYIIIVG WAIYPVGYFT GYLMG..DGG SALNLNLIYN LADFVNKILF
        RED23 NTMMYIIIFG WAIYPVGYFT GYLMG..DGG SALNLNLIYN LADFVNKILF
        RED27 NTMMYIIIFG WAIYLVGYFT GYLMG..DGG SALNLNLIYN LADFVNKILF
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        REDB9 NTMMYIIIFG WAIYPVGYFT GYLMG..DGG SALNLNLIYN LADFVNKILF
        REDF9 NTMMYIIIFG WAIYPVGYFT GYLMG..DGG SALNLNLIYN LADFVNKILF
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    HOT75m8  GLIIWNVAVK ESSNA.
      MB0m1  GLIIWNVAVK ESSNA.
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     MED106  GLIIWNVAVK ESSNA.
     MED202  GLIIWNVAVK ESSNA.
```

Figure 3-7

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      MED208  GLIIWNVAVK ESSNA.
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       MED26  GLIIWNVAVK KSSNA.
       MED27  GLIIWNVAVK ESSNA.
       MED36  GLIIWNVAVK ESSNA.
 medA15_r8_1  GLIIWNVAVK ESSNA.
 medA15_R8_3  GLVIWHVAVK ESSNA.
medA15_r8ex7  GLVIWHVAVK ESSNA.
medA15_R8ex9  GLVIWHVAVK ESSNA.
 medA15_r9_3  GLVIWHVAVK ESSNA.
 medA15r10b5  GLVIWHVAVK ESSNA.
 medA15r11b3  GLIIWHVAVK ESSNA.
 medA15r11b9  GLIIRNVAVK ESSNA.
  medA15r8b3  GLIIWHVAVK ESSNA.
  medA15r8b8  GLIIWAAAVK ESSNA.
  medA15r8b9  GLIIWHVAVK ESSNA.
 medA15r8ex4  GLIIWAAAVK ESSNA.
 medA15r8ex6  GLIIWNVAVK ESSNA.
  medA15r9b5  GLIIWHVAVK ESSNA.
  medA15r9b7  GLVIWHVAVK ESSNA.
medA17_r8_11  GLIIWAAAVK ESSNA.
medA17_r8_15  GLIIWAAAVK ESSNA.
 medA17_R8_6  GLIIWHVAVK ESSNA.
  medA17R9_1  GLIIWHVAVK ESSNA.
medA19_R8_16  GLIIWHVAVK ESSNA.
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       PalB2  GLIIWNVAVK ESSNA.
       PalB5  GLIIWNVAVK ESSNA.
       PalB6  GLIIWNVAVK ESSNA.
       PalB7  GLIIWNVAVK ESSNA.
       PalB8  GLIIWNVAVK ESSNA.
       PalE1  GLIIWNVAVK ESSNA.
       PalE6  GLIIWNVAVK ESSNA.
       PalE7  GLIIWNVAVK ESSNA.
       RED19  GLIIWNVAVK ESSNA.
        RED2  GLIIWNVAVK ESSNA.
       RED23  GLIIWNVAVK ESSNA.
       RED27  GLIIWNVAVK ESSNA.
       RED30  GLIIWNVAVK ESSNA.
        RED4  GLIIWNVAVK ESSNA.
        RED5  GLIIWNVAVK ESSNA.
       REDA9  GLIIWNVAVK ESSNA.
       REDB9  GLIIWNVAVK ESSNA.
       REDF9  GSIIWNVAVK ESSNA.
  REDr6a5a14  GLIIWNVAVK ESSNA.
   REDr6a5a6  GLIIWNVAVK ESSNA.
  REDr7_1_15  GLIIWNVAVK ESSNA.
  REDr7_1_16  GLIIWNVAVK ESSNA.
   REDr7_1_4  GLIIWNVAVK ESSNA.
    REDs3_15  GLIIWNVAVK ESSNA.
     REDs3_7  GLIIWNVAVK ESSN..
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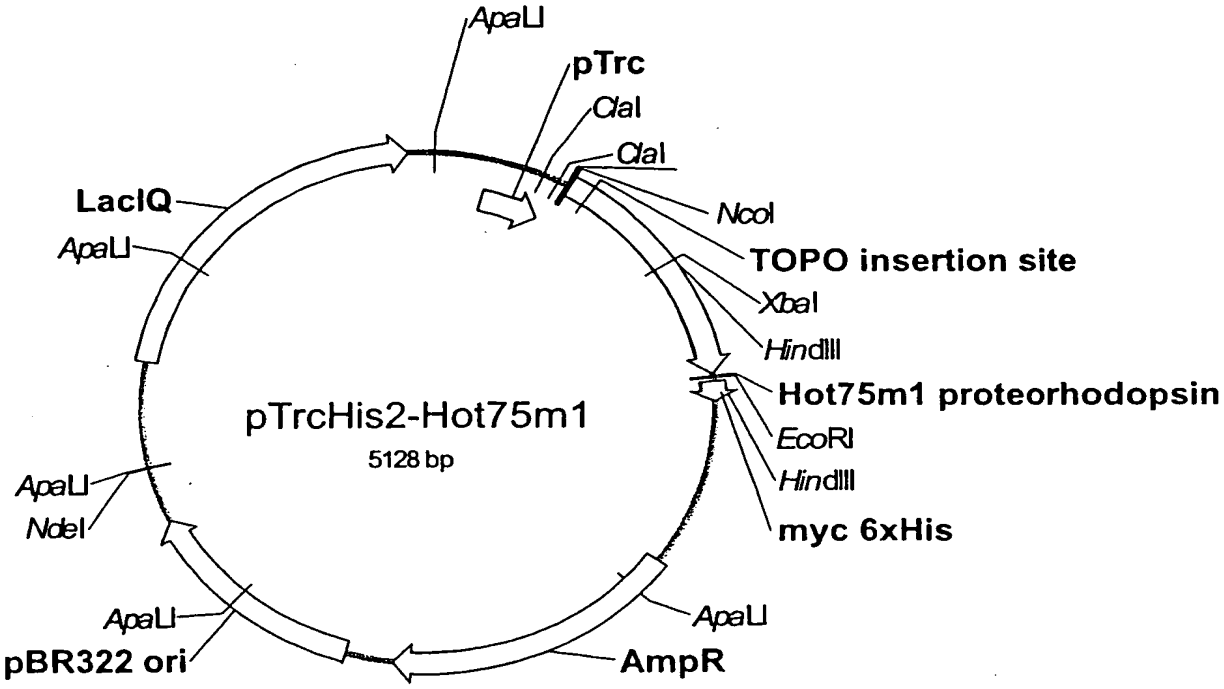
Figure 3-8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ClaI
ClaI
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ApaLI
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XbaI
HindIII
Hot75m1 proteorhodopsin
pTrcHis2-Hot75m1
5128 bp
EcoRI
HindIII
myc 6xHis
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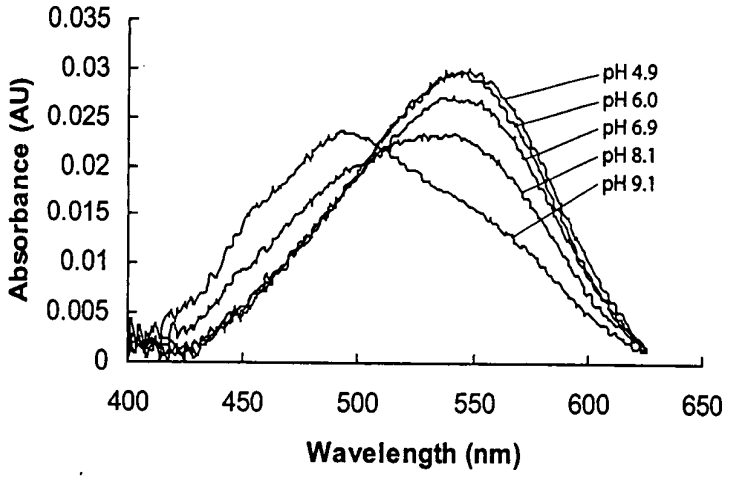
NdeI
ApaLI
ApaLI
pBR322 ori
AmpR

Figure 4

WT



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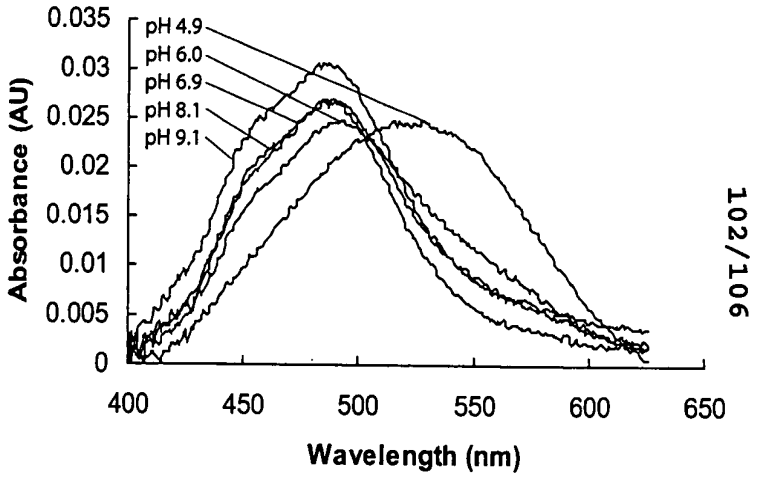

pK_{rh} 8.2 5.8

Figure 5

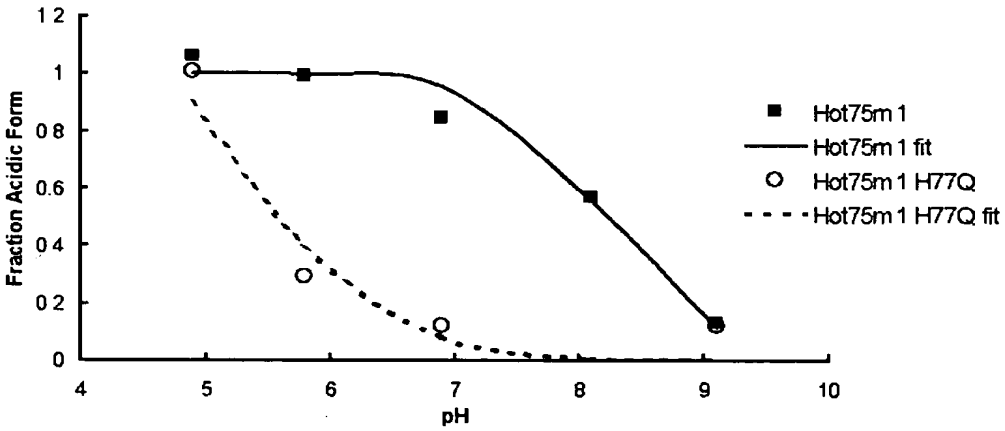
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Figure 6

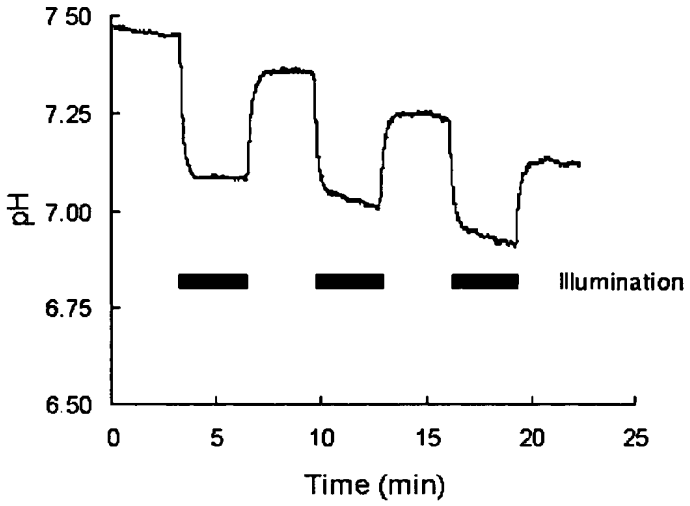

Figure 7-1

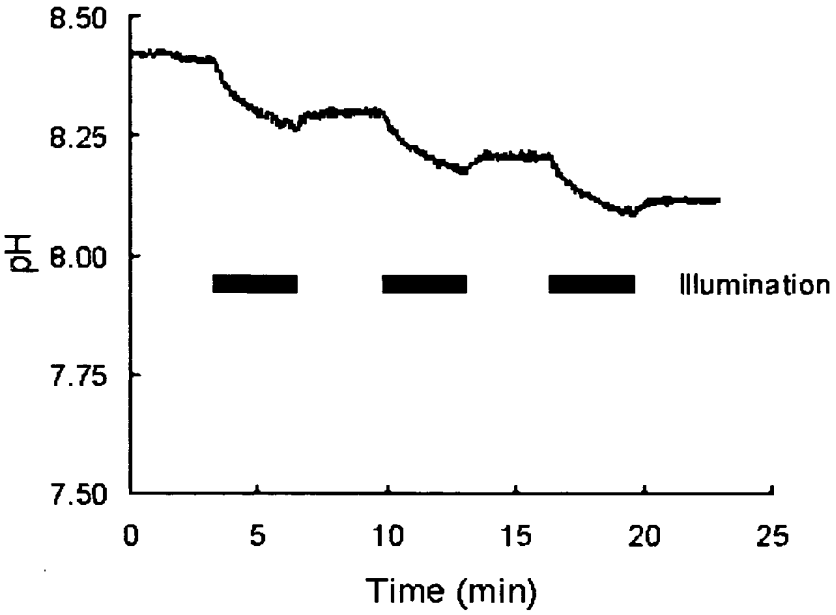

Figure 7-2

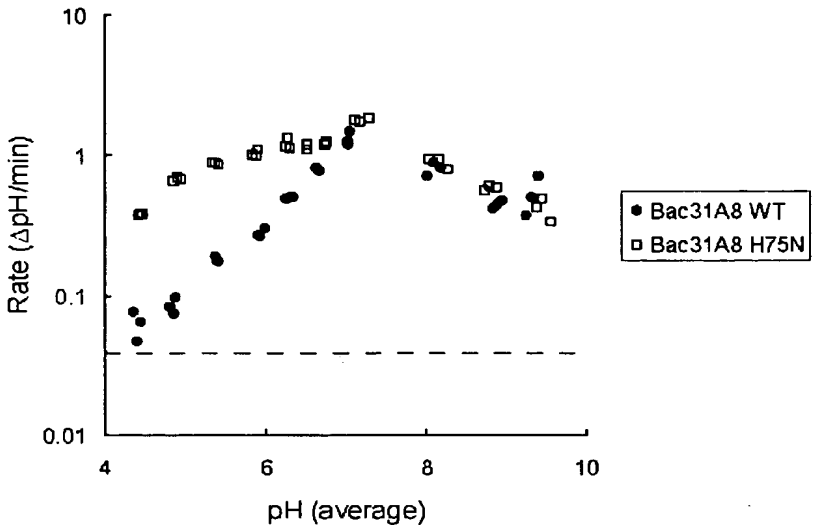
10
1
0.1
0.01
Rate (ΔpH/min)
4
6
8
10
pH (average)
Bac31A8 WT
Bac31A8 H75N

Figure 7-3